## **Product Datasheet**

### KIR2DL4/CD158d Antibody (mAb33) [CoraFluor™ 1] NBP1-50052CL1

Unit Size: 0.1 ml

Store at 4C in the dark. Do not freeze.

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#### NBP1-50052CL1

KIR2DL4/CD158d Antibody (mAb33) [CoraFluor™ 1]

Concentration         Please see the vial label for concentration. If unlisted please contact technical services.           Storage         Store at 4C in the dark. Do not freeze.           Clonality         Monoclonal           Clone         mAb33           Preservative         No Preservative           Isotype         IgG1 Kappa           Conjugate         CoraFluor 1           Purity         Protein A purified           Buffer         PBS           Product Description         CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(IM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 586 nm and 620 nm. It is compatible with common acceptor dyes that absorb at U light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 586 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1 can be used for the development of robust and scalable TR-FRET holing assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.           Host         Mouse           Gene ID         3805           Gene ID         3805           Specificity/Sensitivity         The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expressi		
Concentration         Please see the vial label for concentration. If unlisted please contact technical services.           Storage         Store at 4C in the dark. Do not freeze.           Clonality         Monoclonal           Clone         mAb33           Preservative         No Preservative           Isotype         IgG1 Kappa           Conjugate         CoraFluor 1           Purity         Protein A purified           Buffer         PBS           Product Description         CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(IM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 586 nm and 620 nm. It is compatible with common acceptor dyes that absorb at U light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 586 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1 can be used for the development of robust and scalable TR-FRET holing assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.           Host         Mouse           Gene ID         3805           Gene ID         3805           Specificity/Sensitivity         The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expressi	Product Information	
services.         Storage       Store at 4C in the dark. Do not freeze.         Clonality       Monoclonal         Clone       mAb33         Preservative       No Preservative         Isotype       IgG1 Kappa         Conjugate       CoraFluor 1         Purity       Protein A purified         Buffer       PBS         Product Description       CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence Resonance Energy Transfer) or TRF (Time-Resolved Fluorescence Resonance Energy Transfer) or TRF (Time-Resolved Fluorescence Resonance Energy Transfer) or TRF (Time-Resolved Fluorescence) action or for high throughput assay development. CoraFluor(IM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 365 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluorTM) 1. CoraFluorTM) 1 can be used for the development of robust and scalable TR-FRET binding assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.         Host       Mouse         Gene ID       3805         Gene Symbol       KIR2DL4         Species       Human         Species       Human         Notes       CoraFluor(TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent agreement from Massachusetts General Hospital. US patent agreement from Massachusets General H	Unit Size	0.1 ml
Clonality         Monoclonal           Clone         mAb33           Preservative         No Preservative           Isotype         IgG1 Kappa           Conjugate         CoraFluor 1           Purity         Protein A purified           Buffer         PBS           Product Description         CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence doon for high throughput assay development. CoraFluor(IM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 545 mm, 585 mm 365 mm and 620 nm. It is compatible with commo coceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1. CoraFluor(TM) 1 can be used for the development of robust and scalable TR-FRET binding assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.           Host         Mouse           Gene ID         3805           Gene Bymbol         KIR2DL4           Species         Human           Specificity/Sensitivity         The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4 depends on genotype of particular individuals.           Immunogen         NK3.3 cells and KIR2DL4-lig tusion protein           Notes         CoraFluor(TM) is a tardemark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/0025254           Product Application Details         <	Concentration	
Clone         mAb33           Preservative         No Preservative           Isotype         IgG1 Kappa           Conjugate         CoraFluor 1           Purity         Protein A purified           Buffer         PBS           Product Description         CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(IM) 1 asborts UV light at approximately 340 nm, and emits at approximately 490 nm, 545 nm and 620 nm. It is compatible with common acceptor dyes that absorbs UV light at approximately 340 nm, 545 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1 cars be used for the development of robust and scalable TR-FRET binding assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.           Host         Mouse           Gene ID         3805           Gene Symbol         KIR2DL4           Species         Human           Specificity/Sensitivity         The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4 depends on genotype of particular individuals.           Immunogen         NK3.3 cells and KIR2DL4-Ig fusion protein           Notes         CoraFluor (TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2	Storage	Store at 4C in the dark. Do not freeze.
Preservative         No Preservative           Isotype         IgG1 Kappa           Conjugate         CoraFluor 1           Purity         Protein A purified           Buffer         PBS           Product Description         CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence Resonance Energy Transfer) or TRF (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(IM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 585 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1 can be used for the development of robust and scalable TR-FRET binding assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.           Host         Mouse           Gene ID         3805           Gene Symbol         KIR2DL4           Species         Human           Specificity/Sensitivity         The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4 depends on genotype of particular individuals.           Immunogen         NK3.3 cells and KIR2DL4-Ig fusion protein           Notes         CoraFluor (TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/2025254           Product Application Details         Flow Cytomet	Clonality	Monoclonal
Isotype       IgG1 Kappa         Conjugate       CoraFluor 1         Purity       Protein A purified         Buffer       PBS         Product Description       CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(IM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 455 nm, and 563 nm, and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1. CoraFluor(TM) 1 can be used for the development, ternary complex, protein-protein interaction and protein quantification assays.         Host       Mouse         Gene ID       3805         Gene Symbol       KIR2DL4         Specificity/Sensitivity       The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface greement from Massachusetts General Hospital. US patent 2022/0025254         Product Application Details       Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-ready         Recommended Dilutions       Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Flow (Cell Surface), CyTOF-ready	Clone	mAb33
Conjugate         CoraFluor 1           Purity         Protein A purified           Buffer         PBS           Product Description         CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence Resonance Energy Transfer) or TRF (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(IM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 585 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1. CoraFluor(TM) 1 can be used for the development to robust and scalable TR-FRET binding assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.           Host         Mouse           Gene ID         3805           Gene Symbol         KIR2DL4           Specificity/Sensitivity         The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4 depends on genotype of particular individuals.           Immunogen         NK3.3 cells and KIR2DL4-Ig fusion protein           Notes         CoraFluor (TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/0025254           Product Application Details         Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-ready           Recommended Dilutions         Flow Cytometry, Flow (Cell Sur	Preservative	No Preservative
Purity         Protein A purified           Buffer         PBS           Product Description         CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence Resonance Energy Transfer) or TRF (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(IM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 940 nm, 545 nm, 585 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1. CaraFluor(TM) 1 can be used for the development of robust and scalable TR-FRET binding assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.           Host         Mouse           Gene ID         3805           Gene Symbol         KIR2DL4           Species         Human           Specificity/Sensitivity         The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4 depends on genotype of particular individuals.           Immunogen         NK3.3 cells and KIR2DL4-Ig fusion protein           Notes         CoraFluor (TM) is a tardemark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/0025254           Product Application Details         Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-ready           Recommended Dilutions         Flow Cytometry, Immunocytochemistry Im	Isotype	IgG1 Kappa
Buffer         PBS           Product Description         CoraFluor(TM) 1 is a high performance terbium-based TR-FRET (Time-Resolved Fluorescence Resonance Energy Transfer) or TRF (Time-Resolved Fluorescence) donor for high throughput assay development. CoraFluor(IM) 1 absorbs UV light at approximately 340 nm, and emits at approximately 490 nm, 545 nm, 585 nm and 620 nm. It is compatible with common acceptor dyes that absorb at the emission wavelengths of CoraFluor(TM) 1. CoraFluor(TM) 1 can be used for the development of robust and scalable TR-FRET binding assays such as target engagement, ternary complex, protein-protein interaction and protein quantification assays.           Host         Mouse           Gene ID         3805           Specificity/Sensitivity         The mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4 depends on genotype of particular individuals.           Immunogen         NK3.3 cells and KIR2DL4-1g fusion protein           Notes         CoraFluor(TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/0025254           Product Application Details         Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-ready           Recommended Dilutions         Flow Cytometry, Flow (Cell Surface), CyTOF-ready	Conjugate	CoraFluor 1
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SpeciesHumanSpecificity/SensitivityThe mouse monoclonal antibody mAb#33 (also known as mAb 33 or 33) recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4 depends on genotype of particular individuals.ImmunogenNK3.3 cells and KIR2DL4-Ig fusion proteinNotesCoraFluor (TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/0025254Product Application DetailsFlow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-readyRecommended DilutionsFlow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Flow (Cell Surface), CyTOF-ready	Gene ID	3805
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NotesCoraFluor (TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/0025254Product Application DetailsFlow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-readyRecommended DilutionsFlow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Flow (Cell Surface), CyTOF-ready	Specificity/Sensitivity	recognizes extracellular portion of CD158d / KIR2DL4, a 45 kDa NK cell marker. Cell surface expression and function of CD158d / KIR2DL4 depends on
only under agreement from Massachusetts General Hospital. US patent         2022/0025254         Product Application Details         Applications       Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-ready         Recommended Dilutions       Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Flow (Cell Surface), CyTOF-ready	Immunogen	NK3.3 cells and KIR2DL4-Ig fusion protein
ApplicationsFlow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, CyTOF-readyRecommended DilutionsFlow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Flow (Cell Surface), CyTOF-ready	Notes	only under agreement from Massachusetts General Hospital. US patent
Recommended Dilutions         Immunofluorescence, Immunoprecipitation, CyTOF-ready           Recommended Dilutions         Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Flow (Cell Surface), CyTOF-ready	Product Application Details	
Immunoprecipitation, Flow (Cell Surface), CyTOF-ready	Applications	
Application Notes Optimal dilution of this antibody should be experimentally determined.	Recommended Dilutions	
	Application Notes	Optimal dilution of this antibody should be experimentally determined.





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#### **General Contact Information**

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#### Products Related to NBP1-50052CL1

285-IF-100	IFN-gamma [Unconjugated]
2238-KR-050	KIR2DL4/CD158d
202-IL-010	IL-2 [Unconjugated]
MAB139-100	NKG2D/CD314 Antibody (149810) [Unconjugated]

#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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