

# Product Datasheet

## CD14 Antibody (4B4F12) - BSA Free NBP2-37291

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-37291**

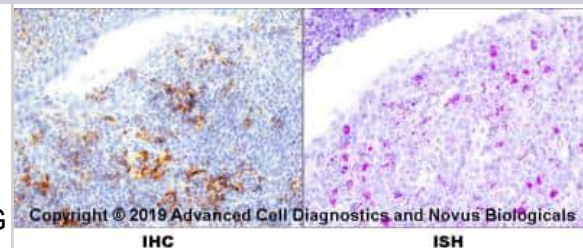
CD14 Antibody (4B4F12) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4B4F12
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	40 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	929
<b>Gene Symbol</b>	CD14
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
<b>Immunogen</b>	Purified recombinant fragment of human CD14 (AA: 20-214) expressed in E. Coli.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready, Dual RNAscope ISH-IHC
<b>Recommended Dilutions</b>	Western Blot 1:500 - 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/Immunofluorescence 1:200, Immunohistochemistry-Paraffin 1:200 - 1:1000, CyTOF-ready, Dual RNAscope ISH-IHC
<b>Application Notes</b>	This antibody is Cytof ready. CD14 antibody validated for ICC/IF from a verified customer review.

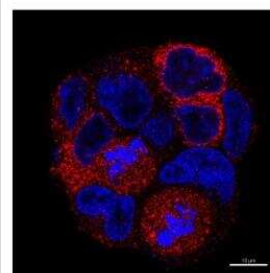


## Images

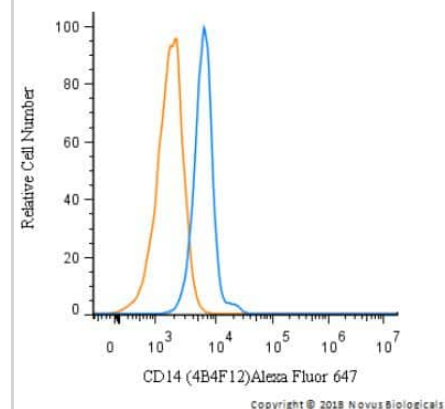
**Dual RNAscope ISH-IHC: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291]** - Tissue sections of human tonsil were probed for CD14 mRNA (ACD RNAscope probe, catalog # 418801; Fast Red chromogen, ACD catalog # 322500). Adjacent tissue section was processed for immunohistochemistry using mouse monoclonal (Novus catalog # NBP2-37291) at 1:100 dilution for 1 hour at room temperature followed by incubation with the anti-mouse IgG VisUCyte HRP Polymer Antibody (Catalog # VC001) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue).



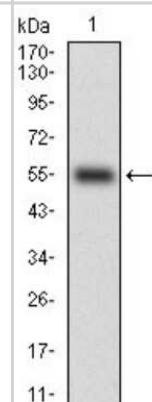
**Immunocytochemistry/Immunofluorescence: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291]** - Confocal image of hCD14-transfected HEKT cells, 4% formalin fixed, indirectly labeled with anti-CD14 1:200, and AF568-conjugated Ab 1:1000. Note that cells have different immunoreactivity due to various expression level of CD14 in single cells. Image from verified customer review.



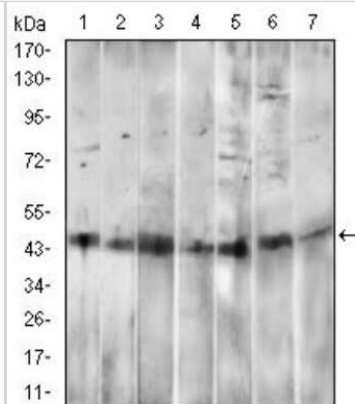
**Flow Cytometry: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291]** - An intracellular stain was performed on Jurkat cells with NBP2-37291AF647 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 5 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Alexa Fluor 647.



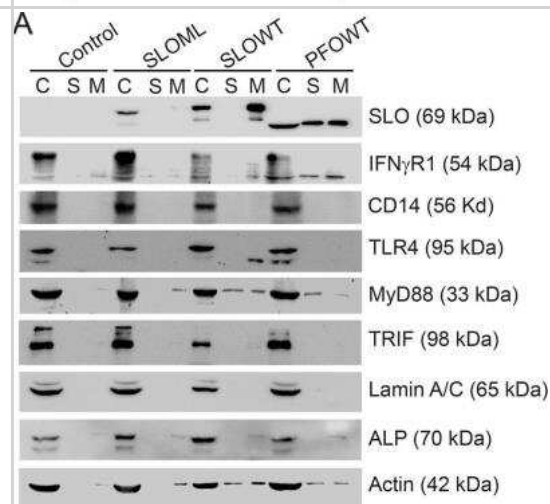
**Western Blot: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291]** - Analysis using CD14 mAb against human CD14 (AA: 20-214) recombinant protein. (Expected MW is 46.8 kDa)



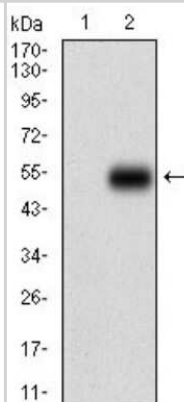
Western Blot: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - Analysis using CD14 mouse mAb against HepG2 (1), A549 (2), HL60 (3), RAW264.7 (4), Hela (5), HEK293 (6) and NIH/3T3 (7) cell lysate.



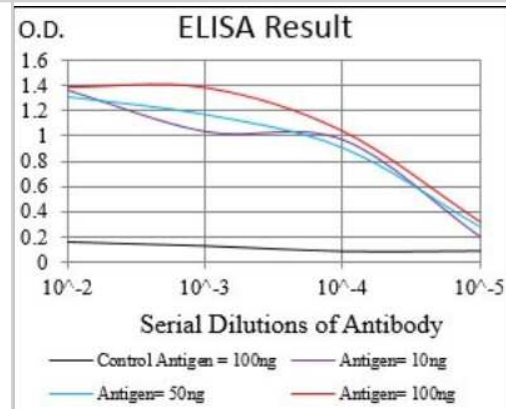
Western Blot: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - BMDM were unchallenged (control) or challenged with 500 HU/mL SLO WT, PFO or an equivalent mass of SLO ML for 10 min at 37C and centrifuged at 2000 x g for 5 min to yield cell pellet (C). Supernatants were spun at 100,000xg for 40 min at 4C to collect the high speed supernatant (S) and microvesicle pellet (M). Samples were solubilized at 95C in SDS-sample buffer, resolved by SDS-PAGE and transferred to nitrocellulose. Portions of the blot were probed with 6D11 anti-SLO, anti-IFN $\gamma$ R1, 4B4F12 anti-CD14, 76B357.1 anti-TLR4, O91B8 anti-MyD88, 1H4B01 anti-Trif, EPR4477 anti-Alkaline Phosphatase, MANLAC-4A7 anti-Lamin A/C, and AC-15 anti-beta-Actin, followed by relevant secondary antibodies and ECL. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-018-24955-2>) licensed under a CC-BY license.



Western Blot: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - Analysis using CD14 mAb against HEK293 (1) and CD14 (AA: 20-214)-hlgGfC transfected HEK293 (2) cell lysate.



ELISA: CD14 Antibody (4B4F12) - BSA Free [NBP2-37291] - CD14 Antibody (4B4F12) [NBP2-37291] - Red: Control Antigen (100ng); Purple: Antigen (10ng); Green: Antigen (50ng); Blue: Antigen (100ng);



## Publications

Bhattacharjee P, Keyel PA. Cholesterol-dependent cytolysins impair pro-inflammatory macrophage responses. Sci Rep 2018-04-24 [PMID: 29691463]



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### Products Related to NBP2-37291

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-52177-0.05mg	Recombinant Mouse CD14 His Protein

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### 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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