

# Product Datasheet

## CD36 Antibody (185-1G2) [CoraFluor™ 1] NBP2-95271CL1

Unit Size: 0.1 ml

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

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**NBP2-95271CL1**

CD36 Antibody (185-1G2) [CoraFluor™ 1]

| <b>Product Information</b>     |   |
|--------------------------------|---|
| <b>Unit Size</b>               | 0.1 ml  |
| <b>Concentration</b>           | Please see the vial label for concentration. If unlisted please contact technical services.   |
| <b>Storage</b>                 | Store at 4C in the dark. Do not freeze.   |
| <b>Clonality</b>               | Monoclonal  |
| <b>Clone</b>                   | 185-1G2   |
| <b>Preservative</b>            | No Preservative   |
| <b>Isotype</b>                 | IgG2a Kappa   |
| <b>Conjugate</b>               | CoraFluor 1   |
| <b>Purity</b>                  | Protein A or G purified   |
| <b>Buffer</b>                  | PBS   |
| <b>Product Description</b>     |   |
| <b>Description</b>             | 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.   |
| <b>Host</b>                    | Mouse   |
| <b>Gene ID</b>                 | 948   |
| <b>Gene Symbol</b>             | CD36  |
| <b>Species</b>                 | Human   |
| <b>Marker</b>                  | Platelet & Microvessel Marker   |
| <b>Specificity/Sensitivity</b> | Recognizes a protein of 80kDa-90kDa, identified as CD36 (Workshop IV; Code P-26). Its epitope maps between aa155-183. It is expressed on platelets, monocytes and macrophages, microvascular endothelial cells, erythrocyte precursors, mammary epithelial cells, and some macrophage derived dendritic cells. CD36 acts as a receptor for thrombospondin (TSP), collagen types I, IV and V, P. falciparum malaria-infected erythrocytes, and sickle erythrocytes. It also functions as a scavenger receptor, mediating macrophage uptake of oxidized low-density lipoprotein (LDL) and recognition of apoptotic polymorphonuclear leukocytes (PMN). CD36 plays a role in platelet aggregation, macrophage foam cell development, inflammation, and the tissue ischemia observed in sickle cell disease and cerebral malaria. Note that 1-4% of Japanese and East Asia population lack CD36. This monoclonal antibody blocks adhesion of P. falciparum parasitized red blood cells to CD36 and strongly inhibits collagen-induced platelet aggregation. |
| <b>Immunogen</b>               | This CD36 Antibody (185-1G2) was developed against stimulated human leukocytes  |
| <b>Notes</b>                   | CoraFluor (TM) is a trademark of Bio-Techne Corp. Sold for research purposes only under agreement from Massachusetts General Hospital. US patent 2022/0025254   |

| <b>Product Application Details</b> |   |
|------------------------------------|---|
| <b>Applications</b>                | Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunofluorescence |
| <b>Recommended Dilutions</b>       | Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunofluorescence |
| <b>Application Notes</b>           | Optimal dilution of this antibody should be experimentally determined.      |





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### **Products Related to NBP2-95271CL1**

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|              |                                |
|--------------|--------------------------------|
| NB400-144PEP | CD36 Antibody Blocking Peptide |
| 210-TA-005   | TNF-alpha [Unconjugated]       |
| NB400-145PEP | CD36 Antibody Blocking Peptide |
| M6000B-1     | IL-6 [HRP]                     |

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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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