



# Anti-CD36 monoclonal antibody, clone SM? (CABT-45989MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

### Product Overview

Mouse anti Human CD36 antibody, clone SM? recognizes the CD36 antigen, an 88kD cell surface glycoprotein expressed by platelets, monocytes/macrophages and also by some microvascular endothelium and erythroid precursors. CD36 is the receptor for thrombospondin. When expressed by monocytes and macrophages, CD36 acts as a receptor for oxidized LDL and for apoptotic polymorphonuclear cells. Mouse anti Human CD36 antibody, clone SM? partially inhibits collagen induced platelet aggregation and macrophage ingestion of apoptotic human neutrophils. It has been reported that this antibody may activate platelets as measured by fibrinogen binding, P-Selectin expression and Annexin V binding - for further details please contact our Technical Services team. Mouse anti Human CD36 antibody, clone SM? is also reported to block interaction of oxidised low-density lipoprotein (OXLDL) with CD36. Flow Cytometry Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells or 100ul whole blood.

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| <b>Specificity</b>        | CD36                                                       |
| <b>Immunogen</b>          | Human tonsil cells and peripheral blood mononuclear cells. |
| <b>Isotype</b>            | IgM                                                        |
| <b>Source/Host</b>        | Mouse                                                      |
| <b>Species Reactivity</b> | Human                                                      |
| <b>Clone</b>              | SM?                                                        |
| <b>Conjugate</b>          | Unconjugated                                               |
| <b>Applications</b>       | IHC-Fr; FC                                                 |
| <b>Format</b>             | Purified IgM - liquid                                      |

---

|                     |                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>         | 100 µg                                                                                                                                                        |
| <b>Preservative</b> | See individual product datasheet                                                                                                                              |
| <b>Storage</b>      | Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use. |

---

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">CD36 CD36 molecule (thrombospondin receptor) [ Homo sapiens (human) ]</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b>     | CD36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Synonyms</b>            | CD36; CD36 molecule (thrombospondin receptor); FAT; GP4; GP3B; GPIV; CHDS7; PASIV; SCARB3; BDPLT10; platelet glycoprotein 4; GPIIIB; PAS IV; PAS-4 protein; glycoprotein IIIb; cluster determinant 36; fatty acid translocase; platelet glycoprotein IV; scavenger receptor type B, isoform 1; CD36; CD36 molecule (thrombospondin receptor); FAT; GP4; GP3B; GPIV; CHDS7; PASIV; SCARB3; BDPLT10; platelet glycoprotein 4; GPIIIB; PAS IV; PAS-4 protein; glycoprotein IIIb; cluster determinant 36; fatty acid translocase; platelet glycoprotein IV; scavenger receptor type B, isoform 1 |
| <b>Entrez Gene ID</b>      | <a href="#">948</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>      | <a href="#">NP_000063</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>          | P16671                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Chromosome Location</b> | 7q11.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | AMPK signaling pathway; Activated TLR4 signalling; Adaptive Immune System; Adipocytokine signaling pathway; Antigen processing-Cross presentation; Binding and Uptake of Ligands by Scavenger Receptors; Class I MHC mediated antigen processing & presentation; Cross-presentation of particulate exogenous antigens (phagosomes);                                                                                                                                                                                                                                                          |
| <b>Function</b>            | high-density lipoprotein particle binding; lipid binding; lipoprotein particle binding; lipoteichoic acid receptor activity; low-density lipoprotein particle binding; low-density lipoprotein receptor activity; thrombospondin receptor activity; transforming growth factor beta binding;                                                                                                                                                                                                                                                                                                 |

---