

CD36 (L-17): sc-5523

BACKGROUND

CD36 (collagen type I receptor, thrombospondin receptor, FAT, GP4, GP3B, GPIV, PASIV, SCARB3) is a membrane glycoprotein on platelets, monocytes and umbilical vein endothelial cells. CD36 binds to collagen, thrombospondin, anionic phospholipids and oxidized LDL. CD36 plays a key role in both phagocytosis and lipid recycling, for constant production of mature spermatozoa. Mutations in this gene cause platelet glycoprotein deficiency. Three alternatively spliced transcript variants encoding the same protein isoform have been found for this gene. Thrombospondins are widely distributed proteins that influence a variety of adhesive processes and CD36 may have important functions as a cell adhesion molecule.

REFERENCES

- Greenwalt, D.E., et al. 1992. Membrane glycoprotein CD36: a review of its role in adherence, signal transduction, and transfusion medicine. *Blood* 80: 1105-1115.
- Daniel, J.L., et al. 1994. Collagen induces normal signal transduction in platelets deficient in CD36 (platelet glycoprotein IV). *Thromb. Haemost.* 71: 353-356.

CHROMOSOMAL LOCATION

Genetic locus: CD36 (human) mapping to 7q21.11; Cd36 (mouse) mapping to 5 A3.

SOURCE

CD36 (L-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CD36 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-5523 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CD36 (L-17) is recommended for detection of CD36 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

CD36 (L-17) is also recommended for detection of CD36 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for CD36 siRNA (h): sc-29995, CD36 siRNA (m): sc-37245, CD36 shRNA Plasmid (h): sc-29995-SH, CD36 shRNA Plasmid (m): sc-37245-SH, CD36 shRNA (h) Lentiviral Particles: sc-29995-V and CD36 shRNA (m) Lentiviral Particles: sc-37245-V.

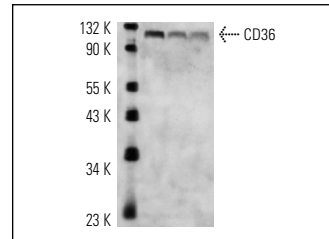
Molecular Weight of CD36: 88 kDa.

Positive Controls: human platelet extract: sc-363773.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

DATA



CD36 (L-17): sc-5523. Western blot analysis of CD36 expression in platelet (A), hPBL (B) and mPBL (C) whole cell lysates.

SELECT PRODUCT CITATIONS

- Kuniyasu, A., et al. 2002. Adipocytes recognize and degrade oxidized low density lipoprotein through CD36. *Biochem. Biophys. Res. Commun.* 295: 319-323.
- Shimizu, E., et al. 2008. IL-4-induced selective clearance of oligomeric β -amyloid peptide(1-42) by rat primary type 2 microglia. *J. Immunol.* 181: 6503-6513.
- Chen, Y., et al. 2009. A TSP-1 functional fragment inhibits activation of latent transforming growth factor- β 1 derived from rat alveolar macrophage after bleomycin treatment. *Exp. Toxicol. Pathol.* 61: 67-73.
- Yang, H., et al. 2011. Interleukin-10 down-regulates oxLDL induced expression of scavenger receptor A and Bak-1 in macrophages derived from THP-1 cells. *Arch. Biochem. Biophys.* 512: 30-37.
- Yatera, K., et al. 2011. Foam cell formation of alveolar macrophages in Clara cell ablated mice inhaling crystalline silica. *Inhal. Toxicol.* 23: 736-744.
- Trujillo, G., et al. 2011. Cofactor regulation of C5a chemotactic activity in physiological fluids. Requirement for the vitamin D binding protein, thrombospondin-1 and its receptors. *Mol. Immunol.* 49: 495-503.

RESEARCH USE

For research use only, not for use in diagnostic procedures.


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