CD36 (SMφ): sc-7309

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.

CHROMOSOMAL LOCATION
Genetic locus: CD36 (human) mapping to 7q21.11; Cdl6 (mouse) mapping to 5 A3.

SOURCE
CD36 (SMφ) is a mouse monoclonal antibody raised against human tonsil cells and peripheral blood monocytes.

PRODUCT
Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD36 (SMφ) is available conjugated to agarose (sc-7309 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-7309 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-7309 PE), fluorescein (sc-7309 FITC), Alexa Fluor® 488 (sc-7309 AF488) or Alexa Fluor® 594 (sc-7309 AF594) or Alexa Fluor® 647 [sc-7309 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM.

Select product citations:

APPLICATIONS
CD36 (SMφ) 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

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: HUV-EC-C whole cell lysate: sc-364180, THP-1 cell lysate: sc-2238 or human platelet extract: sc-363773.

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

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

DATA

SELECT PRODUCT CITATIONS

PROTOCOLS
See our web site at www.scbt.com for detailed protocols and support products.