Product datasheet

Anti-CD36 Antibody

Catalog Number: *PB9371*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-CD36 Antibody
Gene Name	CD36
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CD36, different from the related mouse sequence by six amino acids, and from the related rat sequence by four amino acids.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	88 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

CD36 (cluster of differentiation 36), also known as FAT (fatty acid translocase), FAT/CD36, (FAT)/CD36, SCARB3, GP88, glycoprotein IV (gpIV), and glycoprotein IIIb (gpIIIb), is anintegral membrane protein found on the surface of many cell types in vertebrate animals. CD36 is a member of the class B scavenger receptor family of cell surface proteins. It is mapped to 7q21.11. And CD36 binds many ligands including collagen, thrombospondin, erythrocytes parasitized with Plasmodium falciparum, oxidized low density lipoprotein, native lipoproteins, oxidized phospholipids, and long-chain fatty acids. In addition, CD36 function in long-chain fatty acid uptake and signaling can be irreversibly inhibited by sulfo-N-succinimidyl oleate (SSO), which binds lysine 164 within a hydrophobic pocked shared by several CD36 ligands, e.g. fatty acid and oxLDL.

Reference

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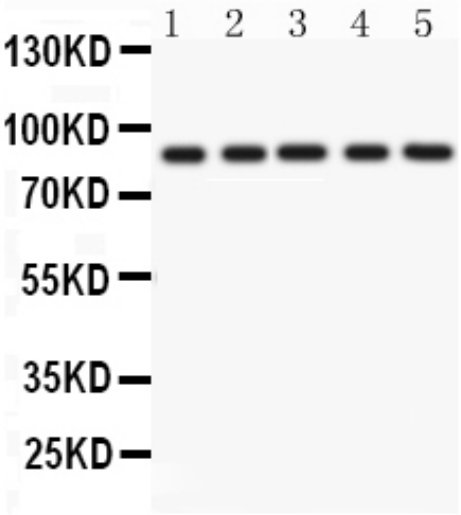
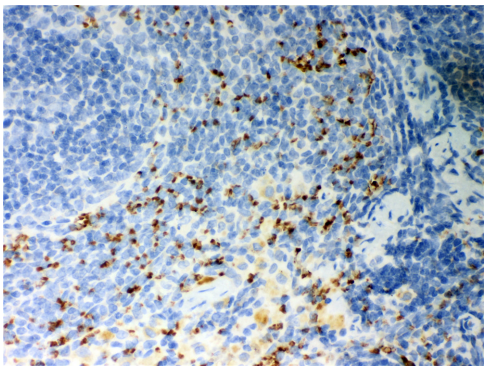
Anti-CD36 Antibody 被引用在3文献中。

Selected Validation Data



Western blot analysis of CD36 using anti-CD36 antibody (PB9371). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Rat Liver tissue lysates,
Lane 2: Rat Cardiac Muscle tissue lysates,
Lane 3: Mouse Liver tissue lysates,
Lane 4: Mouse Cardiac Muscle tissue lysates,
Lane 5: SMMC whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CD36 antigen affinity purified polyclonal antibody (PB9371) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CD36 at approximately 88 kDa. The expected band size for CD36 is at 53 kDa.



IHC analysis of CD36 using anti-CD36 antibody (PB9371).
CD36 was detected in a paraffin-embedded section of rat spleen tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-CD36 Antibody (PB9371) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.