

Product datasheet for **TA500954S**

CD36 Mouse Monoclonal Antibody [Clone ID: OTI6A5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI6A5
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:50
Reactivity:	Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CD36 (NP_000063) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.85 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	52.9 kDa
Gene Name:	CD36 molecule
Database Link:	NP_000063 Entrez Gene 29184 Rat Entrez Gene 948 Human P16671



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Background:

The protein encoded by this gene is the fourth major glycoprotein of the platelet surface and serves as a receptor for thrombospondin in platelets and various cell lines. Since thrombospondins are widely distributed proteins involved in a variety of adhesive processes, this protein may have important functions as a cell adhesion molecule. It binds to collagen, thrombospondin, anionic phospholipids and oxidized LDL. It directly mediates cytoadherence of *Plasmodium falciparum* parasitized erythrocytes and it binds long chain fatty acids and may function in the transport and/or as a regulator of fatty acid transport. Mutations in this gene cause platelet glycoprotein deficiency. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene.

Synonyms:

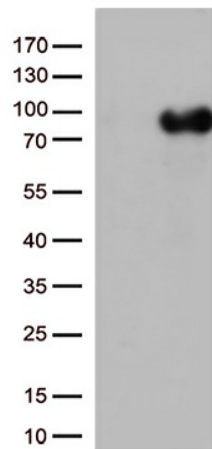
BDPLT10; CHDS7; FAT; GP3B; GP4; GPIV; PASIV; SCARB3

Protein Families:

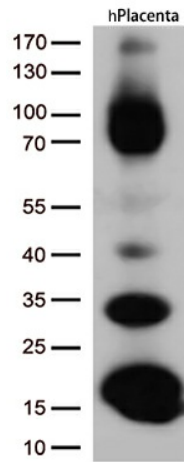
Druggable Genome, Transmembrane

Protein Pathways:

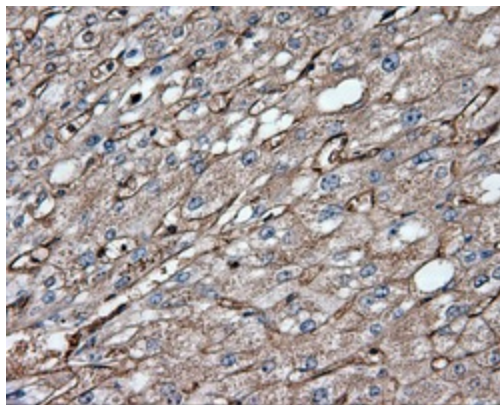
Adipocytokine signaling pathway, ECM-receptor interaction, Hematopoietic cell lineage, PPAR signaling pathway

Product images:

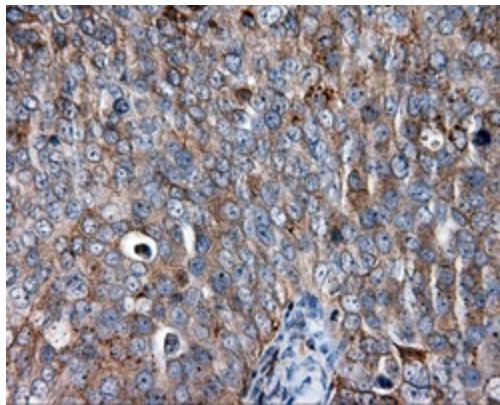
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD36 ([RC203254], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD36 (1:500).



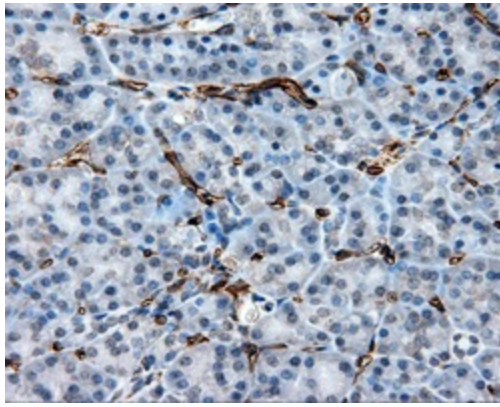
Western blot analysis of extracts (35ug) from human placenta tissue by using anti-CD36 monoclonal antibody (1:500).



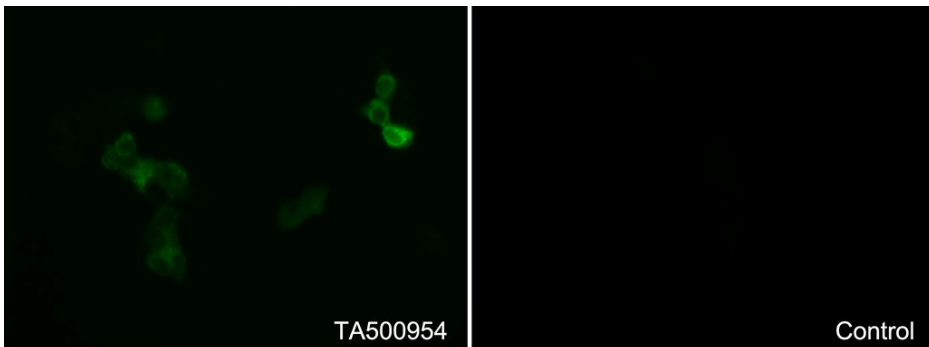
Immunohistochemical staining of paraffin-embedded liver tissue within the normal limits using anti-CD36 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500954], Dilution 1:50)



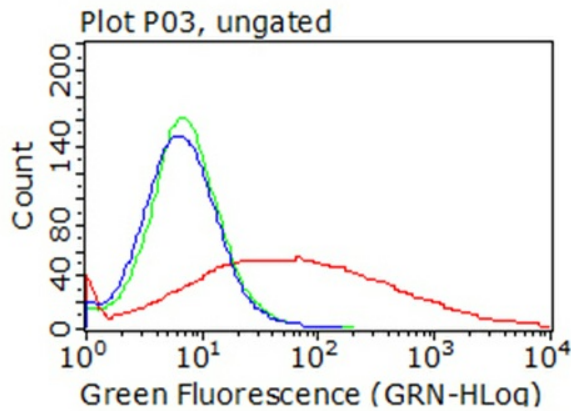
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of ovary tissue using anti-CD36 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500954], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded pancreas tissue within the normal limits using anti-CD36 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500954], Dilution 1:50)



Immunofluorescent staining of 293T cells transfected by pCMV6-ENTRY CD36 ([RC203254]) using anti-CD36 antibody ([TA500954]/green, left). 293T cells transfected with empty vector served as a negative control (right) (1:100).



HEK293T cells transfected with either [RC203254] overexpress plasmid (Red), compared to an IgG isotype control, (Green) or empty vector control plasmid (Blue) were immunostained by anti-CD36 antibody ([TA500954]), and then analyzed by flow cytometry (1:100).