

Basic Information

Product Name	Anti-CD36 Antibody (Clone#OTI3F4)		
Gene Name	CD36		
Source	Mouse		
Clonality	Monoclonal		
Isotype	IgG1		
Species Reactivity	human, mouse, rat		
Tested Application	WB, IHC, ICC/IF, FCM		
Contents	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.		
Immunogen	Full length human recombinant protein of human CD36 (NP_000063) produced in HEK293T cell.		
Concentration	500 ug/ml		
Purification	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)		
Observed MW	88 kDa		
Dilution Ratios	Western blot (WB):	1:2000	
	Immunohistochemistry (IHC):	1:50	
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:100	
	Flow Cytometry (FCM):	1:100	

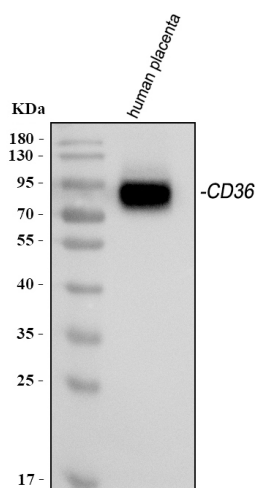
Storage

Stable for 12 months from date of receipt. Store at -20°C as received.

Background Information

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.

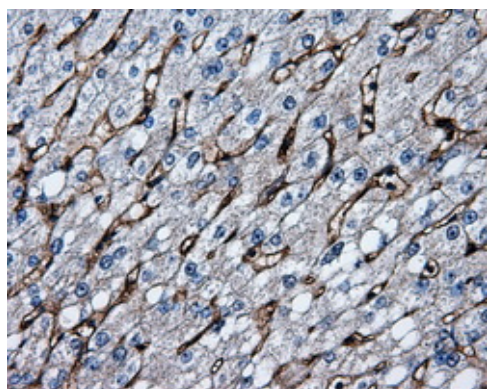
Selected Validation Data



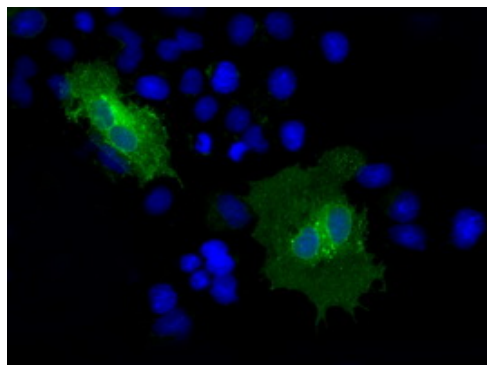
Western blot analysis of anti-CD36 antibody (MA01189). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human placenta tissue lysates.

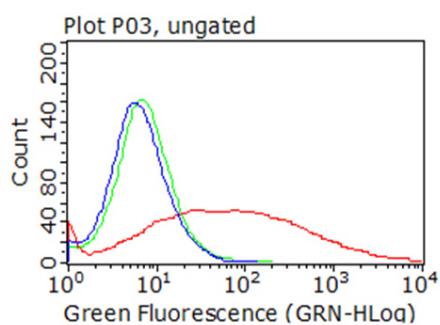
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-CD36 antigen affinity purified monoclonal antibody (MA01189) and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western 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.



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, M01189-1, Dilution 1:50)



Anti-CD36 mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CD36.



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