Datasheet for ABIN350201

anti-CD36 antibody (Extracellular Domain)

6 Images

Go to Product page

Overview

Quantity:	500 µg
Target:	CD36
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD36 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthetic peptide from extracellular domain of human CD36 (Fatty acid translocase) conjugated to an immunogenic carrier protein was used as the antigen.
Specificity:	Specific for CD36.
Cross-Reactivity:	Human
Cross-Reactivity (Details):	Other species not yet tested.
Purification:	IgG

Target Details

Target:	CD36
Alternative Name:	CD36 (CD36 Products)

Target Details

Background:	FUNCTION: Seems to have numerous potential physiological functions. Recent compelling evidence from rodent and human studies raise the possibility for an additional sixth taste modality devoted to the perception of lipids. Recent studies strongly suggest that lingual CD36, being implicated in the perception of dietary fat, may act as a gustatory lipid sensor (1). Binds to collagen, thrombospondin, anionic phospholipids and oxidized LDL. May function as a cell adhesion molecule. Directly mediates cytoadherence of Plasmodium falciparum parasitized erythrocytes. Binds long chain fatty acids and may function in the transport and/or as a regulator of fatty acid transport. Defects in CD36 are the cause of platelet glycoprotein IV deficiency, also known as CD36 deficiency. Platelet glycoprotein IV deficiency can be divided into 2 subgroups. The type I phenotype is characterized by platelets and monocytes/macrophages exhibiting complete CD36 deficiency. The type II phenotype lacks the surface expression of CD36 in platelets, but expression in monocytes/macrophages is near normal. SUBCELLULAR LOCATION: Cell membrane, Multi-pass membrane protein.,Fat Taste Transduction,Platelet glycoprotein 4, Platelet glycoprotein IV,GPIV, Glycoprotein IIIb, GPIIIB, Leukocyte differentiation antigen CD36, PAS IV, PAS-4, Platelet collagen receptor, Fatty acid translocase, FAT, Thrombospondin receptor, CD36, GP3B, GP4
UniProt:	P16671
Pathways:	TLR Signaling, Peptide Hormone Metabolism, Response to Growth Hormone Stimulus, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Regulation of Lipid Metabolism by PPARalpha, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Hepatitis C, Toll-Like Receptors Cascades, Lipid Metabolism, S100 Proteins

Application Details

Application Notes:	IHC, WB. A concentration of 10-50 µg,ml is recommended. The optimal concentration should be determined by the end user. Not yet tested in other applications.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material.
Handling Advice:	Avoid freeze and thaw cycles.
Storage:	4 °C/-20 °C

Handling

Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20°C for long term storage and refrigerated at 2-8°C for a shorter term. When reconstituting, glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles.
Expiry Date:	12 months

Images

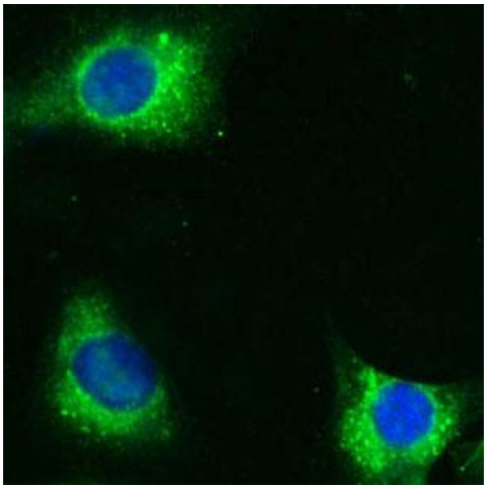

Image 1. Human Melanoma cell line C 32 was cultured overnight on round cover slides placed in a 24 well tissue culture plate. Culture media removed and washed twice with PBS before fixing with 2% formalin for 10 minutes. Cells were then washed three times with PBS and incubated with Tris 0.01M containing Triton X 0.005% for 15 minutes. Cells were washed and incubated with 100 µl of Rabbit antibody to extracellular domain of human CD36 (Fatty acid translocase): IgG diluted 1:100 in the blocking buffer for 30 minutes. Welles were then washed 7 times with PBS and incubated with 100 µl of anti Rb-FITC conjugate diluted 1:100 in the blocking buffer for further 30 minutes. Cells were washed as before and nuclear counter stained with Hoechst and mounted on to slides.

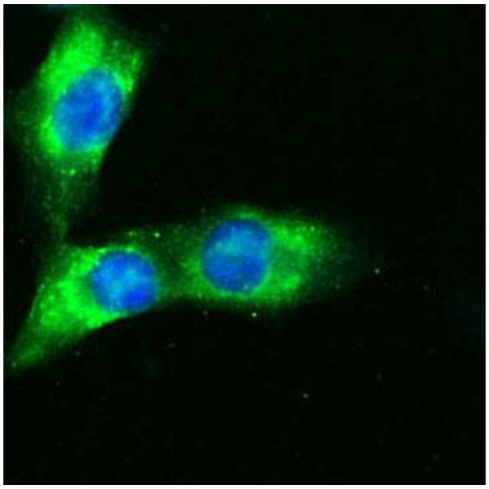

Image 2. Human Melanoma cell line C 32 was cultured overnight on round cover slides placed in a 24 well tissue culture plate. Culture media removed and washed twice with PBS before fixing with 2% formalin for 10 minutes. Cells were then washed three times with PBS and incubated with Tris 0.01M containing Triton X 0.005% for 15 minutes. Cells were washed and incubated with 100 µl of Rabbit antibody to extracellular domain of human CD36 (Fatty acid translocase): IgG diluted 1:100 in the blocking buffer for 30 minutes. Welles were then washed 7 times with PBS and incubated with 100 µl of anti Rb-FITC conjugate diluted

1:100 in the blocking buffer for further 30 minutes. Cells were washed as before and nuclear counter stained with Hoechst and mounted on to slides.

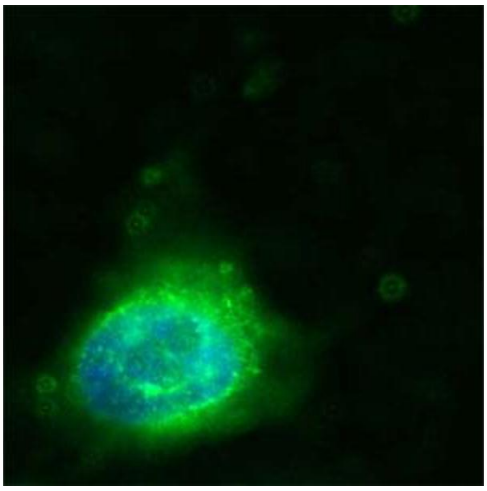

Image 3. Human Melanoma cell line C 32 was cultured overnight on round cover slides placed in a 24 well tissue culture plate. Culture media removed and washed twice with PBS before fixing with 2% formalin for 10 minutes. Cells were then washed three times with PBS and incubated with Tris 0.01M containing Triton X 0.005% for 15 minutes. Cells were washed and incubated with 100 µl of Rabbit antibody to extracellular domain of human CD36 (Fatty acid translocase): IgG diluted 1:100 in the blocking buffer for 30 minutes. Welles were then washed 7 times with PBS and incubated with 100 µl of anti Rb-FITC conjugate diluted 1:100 in the blocking buffer for further 30 minutes. Cells were washed as before and nuclear counter stained with Hoechst and mounted on to slides.

Please check the product details page for more images. Overall 6 images are available for ABIN350201.