


Anti-CD36 antibody [EPR6573] ab133625

重组 RabMAb

★★★★★ **8 Abreviews** **111 References** **6 图像**

概述

产品名称	Anti-CD36抗体[EPR6573]
描述	兔单克隆抗体[EPR6573] to CD36
宿主	Rabbit
特异性	The immunogen used for this product shares 57% homology with SCARB1. Cross-reactivity with this protein has not been confirmed experimentally. Expression levels of the target protein vary with sample type and some optimisation may be required.
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Human 预测可用于: Guinea pig 
免疫原	Synthetic peptide within Human CD36 aa 350-450. The exact sequence is proprietary. Database link: P16671 (Peptide available as ab190596)
阳性对照	WB: HEK293, THP-1, HepG2, human adipose tissue and platelet lysates. IHC-P: human cardiac muscle and hepatocellular cancer tissue.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide

	Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR6573
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab133625于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (6)	1/1000 - 1/10000. Detects a band of approximately 78-88 kDa (predicted molecular weight: 53 kDa). For unpurified use at 1/100 - 1/1000. DS: <i>For Lysate preparation protocol, please refer to the protocol book in the protocol section.</i> Product runs at 75-85 kDa due to glycosylation.
IHC-P	★☆☆☆☆ (1)	1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. We do not guarantee IHC-P for mouse species and did not test IHC-P on guinea pig tissues.

靶标

功能	<p>Multifunctional glycoprotein that acts as receptor for a broad range of ligands. Ligands can be of proteinaceous nature like thrombospondin, fibronectin, collagen or amyloid-beta as well as of lipidic nature such as oxidized low-density lipoprotein (oxLDL), anionic phospholipids, long-chain fatty acids and bacterial diacylated lipopeptides. They are generally multivalent and can therefore engage multiple receptors simultaneously, the resulting formation of CD36 clusters initiates signal transduction and internalization of receptor-ligand complexes. The dependency on coreceptor signaling is strongly ligand specific. Cellular responses to these ligands are involved in angiogenesis, inflammatory response, fatty acid metabolism, taste and dietary fat processing in the intestine (Probable). Binds long-chain fatty acids and facilitates their transport into cells, thus participating in muscle lipid utilization, adipose energy storage, and gut fat absorption (By similarity) (PubMed:18353783, PubMed:21610069). In the small intestine, plays a role in proximal absorption of dietary fatty acid and cholesterol for optimal chylomicron formation, possibly through the activation of MAPK1/3 (ERK1/2) signaling pathway (By similarity) (PubMed:18753675). Involved in oral fat perception and preferences (PubMed:22240721, PubMed:25822988). Detection into the tongue of long-chain fatty acids leads to a rapid and sustained rise in flux and protein content of pancreaticobiliary secretions (By similarity). In taste receptor cells, mediates the induction of an increase in intracellular calcium levels by long-chain fatty acids, leading to the activation of the gustatory neurons in the nucleus of the solitary tract (By similarity). Important factor in both ventromedial hypothalamus neuronal sensing of long-chain fatty acid and the regulation of energy and glucose homeostasis (By similarity). Receptor for thrombospondins, THBS1 and THBS2, mediating their antiangiogenic effects (By similarity). As a coreceptor for</p>
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TLR4:TLR6 heterodimer, promotes inflammation in monocytes/macrophages. Upon ligand binding, such as oxLDL or amyloid-beta 42, interacts with the heterodimer TLR4:TLR6, the complex is internalized and triggers inflammatory response, leading to NF-kappa-B-dependent production of CXCL1, CXCL2 and CCL9 cytokines, via MYD88 signaling pathway, and CCL5 cytokine, via TICAM1 signaling pathway, as well as IL1B secretion, through the priming and activation of the NLRP3 inflammasome (By similarity) (PubMed:20037584). Selective and nonredundant sensor of microbial diacylated lipopeptide that signal via TLR2:TLR6 heterodimer, this cluster triggers signaling from the cell surface, leading to the NF-kappa-B-dependent production of TNF, via MYD88 signaling pathway and subsequently is targeted to the Golgi in a lipid-raft dependent pathway (By similarity) (PubMed:16880211). (Microbial infection) Directly mediates cytoadherence of Plasmodium falciparum parasitized erythrocytes and the internalization of particles independently of TLR signaling.

疾病相关

Platelet glycoprotein IV deficiency
Coronary heart disease 7

序列相似性

Belongs to the CD36 family.

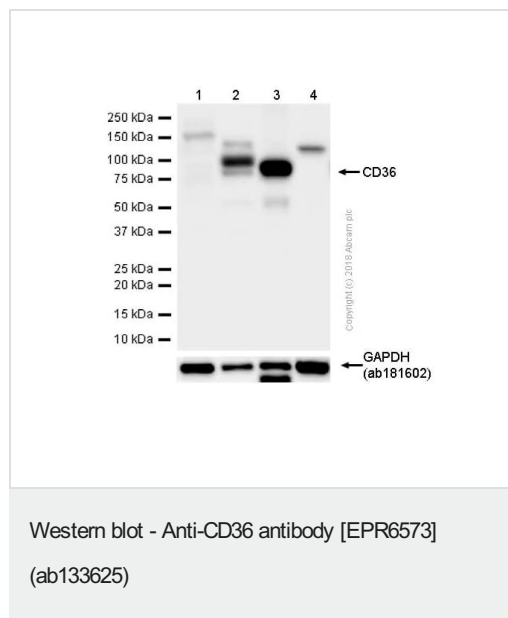
翻译后修饰

N-glycosylated and O-glycosylated with a ratio of 2:1.
Ubiquitinated at Lys-469 and Lys-472. Ubiquitination is induced by fatty acids such as oleic acid and leads to degradation by the proteasome (PubMed:21610069, PubMed:18353783).
Ubiquitination and degradation are inhibited by insulin which blocks the effect of fatty acids (PubMed:18353783).

细胞定位

Cell membrane. Membrane raft. Golgi apparatus. Apical cell membrane. Upon ligand-binding, internalized through dynamin-dependent endocytosis.

图片



All lanes : Anti-CD36 antibody [EPR6573] (ab133625) at 1/1000 dilution

Lane 1 : THP-1 (Human monocytic leukemia monocyte) whole cell lysate

Lane 2 : THP-1 (Human monocytic leukemia monocyte) treated with 100ng/ml PMA (Phorbol-12-myristate-13-acetate) for 72 hours whole cell lysates

Lane 3 : Human adipose lysates

Lane 4 : HepG2 (Human hepatocellular carcinoma epithelial cell) whole cell lysates

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

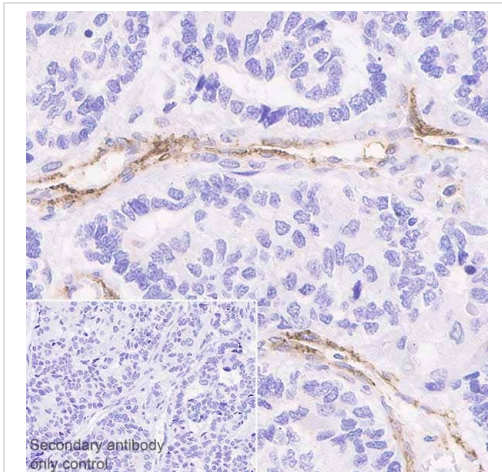
Predicted band size: 53 kDa

Observed band size: 78 kDa

Exposure time: 50 seconds

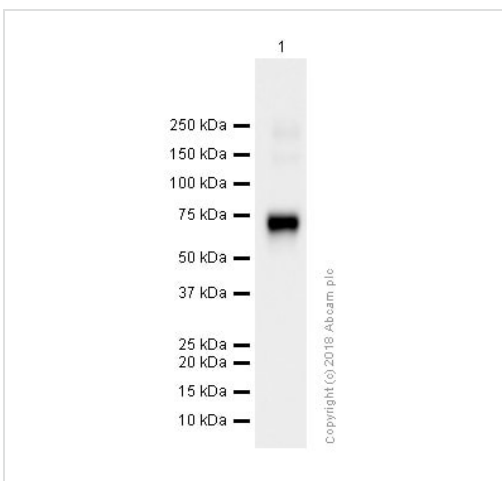
The expression level of CD36 varies in different samples, and it could be upregulated by treatments such as PMA and *Porphyromonas gingivalis* (PMID: 8576181 and 27234131).

Blocking and diluting buffer and concentration: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD36 antibody [EPR6573] (ab133625)

Ab133625 staining CD36 in paraffin embedded Human Hepatocellular cancer tissue sections by Immunohistochemistry (Formalin/PFA fixed paraffin embedded sections). Tissue was counterstained with hematoxylin and heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody at 1/10,000 dilution (0.17 µg/ml). A ready to use Goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody. Positive staining on endothelial cells in human hepatocellular cancer.



Western blot - Anti-CD36 antibody [EPR6573] (ab133625)

Anti-CD36 antibody [EPR6573] (ab133625) at 1/1000 dilution + HEK293 (human embryonic kidney epithelial cell) transfected with His-tagged human CD36 (30aa-439aa) expression vector, whole cell lysate at 20 µg

Secondary

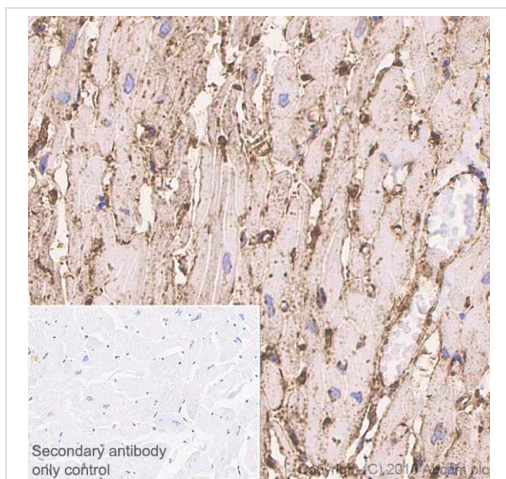
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 53 kDa

Observed band size: 74 kDa

Exposure time: 3 seconds

Blocking buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD36 antibody [EPR6573] (ab133625)

Ab133625 staining CD36 in paraffin embedded Human cardiac muscle tissue sections by Immunohistochemistry (Formalin/PFA fixed paraffin embedded sections). Tissue was counterstained with hematoxylin and heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody at 1/10,000 dilution (0.17µg/ml). A ready to use Goat anti-rabbit IgG H&L (HRP) was used as the secondary antibody. Positive staining mainly on endothelial cells in human cardiac muscle.



Western blot - Anti-CD36 antibody [EPR6573] (ab133625)

All lanes : Anti-CD36 antibody [EPR6573] (ab133625) at 1/1000 dilution

Lane 1 : Human Heart Tissue Lysate

Lane 2 : Human Adipose Tissue Lysate

Lane 3 : Human Platelet Lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/10000 dilution

Predicted band size: 53 kDa

Observed band size: 88 kDa

This blot was produced using a 10% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 2% Bovine Serum Albumin before being incubated with ab133625 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
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Success from the first experiment
Confirmed specificity



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Animal-free production

Anti-CD36 antibody [EPR6573] (ab133625)

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