

Anti-CD36 antibody [FA6-152] ab17044

★★★★☆ [2 Abreviews](#) [47 References](#) [画像数 4](#)

製品の概要

製品名	Anti-CD36 antibody [FA6-152]
製品の詳細	Mouse monoclonal [FA6-152] to CD36
由来種	Mouse
アプリケーション	適用あり: IHC-P, Flow Cyt, IHC-Fr 適用なし: WB
種交差性	交差種: Human
免疫原	Tissue, cells or virus corresponding to Human CD36. 20-Weeks-old fetal erythrocytes
ポジティブ・コントロール	Flow cytometry: THP-1 cells; IHC-Fr: Human tonsil tissue; IHC-P: Human breast carcinoma tissue.
特記事項	<p>We have data from customer abReviews and publications indicating that this antibody is capable of detecting CD36 via western blot. However, based on customer feedback of difficulties and extensive troubleshooting using this antibody in western blot, we are removing WB as a tested application and recommend ab133625 as an alternative for use in this application.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Constituents: PBS, 0.1% BSA
精製度	Protein G purified
特記事項(精製)	0.2 µm filtered
ポリ/モノ	モノクローナル
クローン名	FA6-152
アイソタイプ	IgG1

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab17044の使用に適用されます**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
IHC-Fr	★★★★★ (1)	Use at an assay dependent concentration.

追加情報 Is unsuitable for WB.

ターゲット情報

機能

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 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.

関連疾患

Platelet glycoprotein IV deficiency
Coronary heart disease 7

配列類似性

Belongs to the CD36 family.

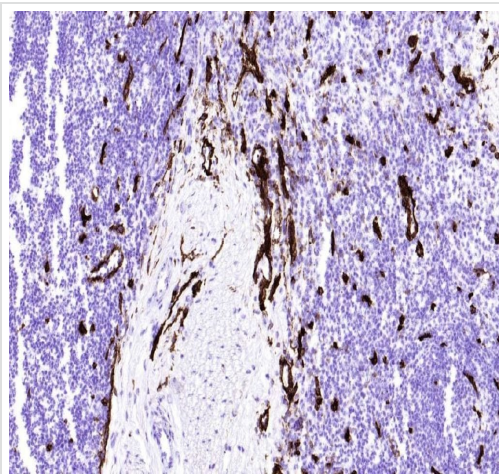
翻訳後修飾

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).

細胞内局在

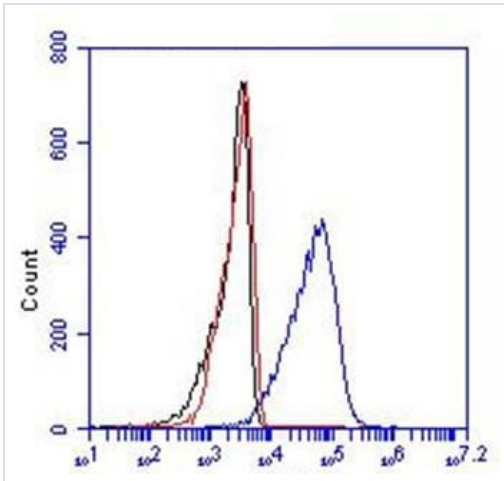
Cell membrane. Membrane raft. Golgi apparatus. Apical cell membrane. Upon ligand-binding, internalized through dynamin-dependent endocytosis.

画像



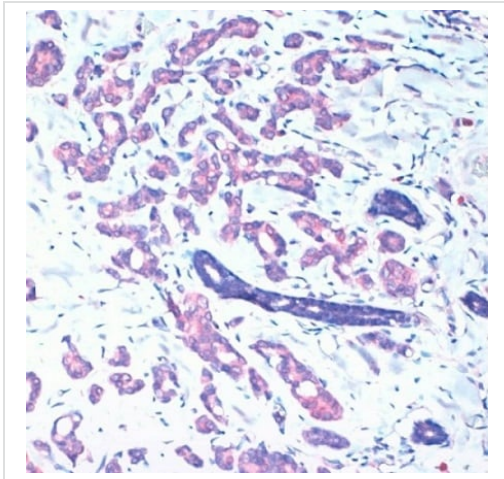
Immunohistochemistry of frozen section of human tonsil tissue stained for CD36 with ab17044 at 20 µg/ml.

Immunohistochemistry (Frozen sections) - Anti-CD36 antibody [FA6-152] (ab17044)



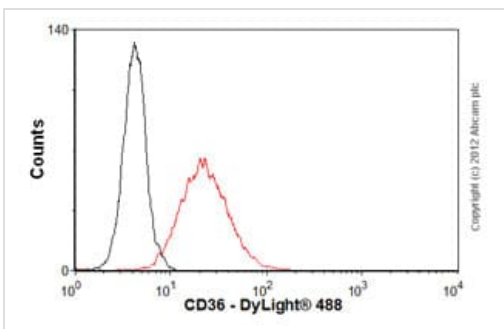
Flow Cytometry - Anti-CD36 antibody [FA6-152]
(ab17044)

Detection of CD36 in THP-1 cells. Red, black and blue line represent the isotype control, cells only and ab17044 at 10 µg/ml, respectively.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD36 antibody [FA6-152]
(ab17044)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) of human breast carcinoma stained for CD36 with ab17044 at 20 µg/ml



Flow Cytometry - Anti-CD36 antibody [FA6-152]
(ab17044)

Overlay histogram showing THP1 cells stained with ab17044 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab17044, 1 µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) ([ab96879](#)) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] ([ab91353](#), 2 µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive result in 80% methanol (5 min) fixed THP1 cells used under the same conditions.

Please note that Abcam do not have any data for use of this

antibody on non-fixed cells. We welcome any customer feedback.

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