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PRODUCT INFORMATION

Scavenger Receptor B2/CD36 Extracellular Domain (mouse, recombinant)

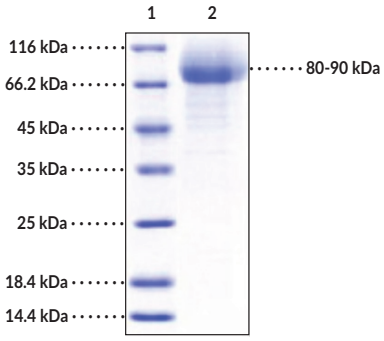
Item No. 35729

Overview and Properties

Synonyms:	Fatty Acid Translocase, GPIIIB, GPIV, PAS IV, Platelet Glycoprotein 4, Platelet Glycoprotein IV
Source:	Active recombinant mouse C-terminal His-tagged CD36 expressed in HEK293 cells
Amino Acids:	30-439
Uniprot No.:	Q08857
Molecular Weight:	47.8 kDa
Storage:	-80°C (as supplied)
Stability:	≥1 year
Purity:	***batch specific*** (≥92% estimated by SDS-PAGE)
Supplied in:	Lyophilized from sterile PBS, pH 7.4
Endotoxin Testing:	<1.0 EU/µg, determined by the LAL endotoxin assay
Protein Concentration:	***batch specific*** mg/ml
Activity:	***batch specific*** U/ml
Specific Activity:	***batch specific*** U/mg

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Image



Lane 1: MW Markers
Lane 2: Scavenger Receptor B2/CD36 Extracellular Domain

SDS-PAGE Analysis of Scavenger Receptor B2/CD36 Extracellular Domain. This protein has a calculated molecular weight of 47.8 kDa. It has an apparent molecular weight of approximately 80-90 kDa by SDS-PAGE under reducing conditions due to glycosylation.

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PRODUCT INFORMATION

Description

CD36, also known as scavenger receptor B2 or fatty acid translocase, is a transmembrane glycoprotein that has roles in fatty acid uptake and lipid metabolism and signaling.[1] It is composed of N- and C-terminal cytoplasmic tails, two transmembrane domains, and an extracellular loop that binds to a variety of lipid ligands, including long-chain fatty acids, oxidized LDL, and oxidized phospholipids, and protein ligands, such as thrombospondin (TSP-1), and is subject to post-translational modifications.[1-3] CD36 is expressed by a variety of cells, including hematopoietic cells such as platelets, monocytes, and macrophages, as well as adipocytes, enterocytes, cardiac and skeletal myocytes, and endothelial and epithelial cells.[1,4] It also exists as a soluble form, sCD36, which is produced *via* plasma proteases.[2] CD36 expression is regulated by several transcription factors, including peroxisome proliferator-activated receptor (PPAR), STAT3, and hypoxia-inducible factor-1α (HIF-1α), in a tissue-dependent manner.[1,3] It is localized to the plasma membrane and within endosomes, the endoplasmic reticulum, and mitochondria, and is translocated between these compartments in response to various stimuli, including insulin-induced PI3K signaling and muscle contraction-induced AMPK signaling, to regulate fatty acid uptake.[2,3] It has additional roles in the phagocytosis of apoptotic cells and *P. falciparum*-infected red blood cells (RBCs), angiogenesis, thrombosis, inflammation, and atherosclerosis, as well as cancer metastasis.[3,5] Cayman's Scavenger Receptor B2/CD36 Extracellular Domain (mouse, recombinant) protein can be used for binding assays. This protein consists of 421 amino acids and has a calculated molecular weight of 47.8 kDa. By SDS-PAGE, under reducing conditions, the apparent molecular mass of the protein is 80-90 kDa due to glycosylation.

References

1. Glatz, J.F.C. and Luiken, J.J.F.P. Dynamic role of the transmembrane glycoprotein CD36 (SR-B2) in cellular fatty acid uptake and utilization. *J. Lipid Res.* **59(7)**, 1084-1093 (2018).
2. Wang, J. and Li, Y. CD36 tango in cancer: Signaling pathways and functions. *Theranostics* **9(17)**, 4893-4908 (2019).
3. Yang, X., Okamura, D., Lu, X., *et al*. CD36 in chronic kidney disease: Novel insights and therapeutic opportunities. *Nat. Rev. Nephrol.* **13(12)**, 769-781 (2017).
4. Glatz, J.F.C. and Luiken, J.J.F.P. From fat to FAT (CD36/SR-B2). *Biochimie* **136**, 21-26 (2017).
5. Maréchal, L., Laviolette, M., Rodrigue-Way, A., *et al*. The CD36-PPARγ pathway in metabolic disorders. *Int. J. Mol. Sci.* **19(5)**, 1529 (2017).

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