ALPHA DIAGNOSTIC INTERNATIONAL

LIFE TECH Life Technologies™ Your Molecular & Cell Technology Partner

Product Data Sheet

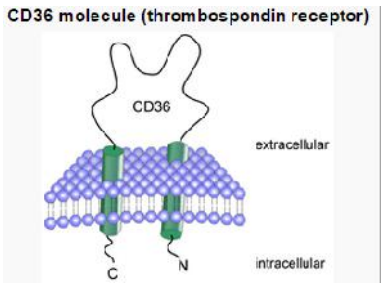
Cat# **SP-67680-1**

Description: Cys-CD36 (139-155) (AA: Cys-Asn-Leu-Ala-Val-Ala-Ala-Ala-Ser-His-Ile-Tyr-Gln-Asn-Gln-Phe-Val-Gln) (MW: 1977.24)

Size: 1 mg

Purity: >95%

Store: Desiccated at -20oC.



This CD36 glycoprotein IV or IIIb sequence represents part of the epitope that binds the monoclonal anti-CD36 anti-body OKM5. It enhanced binding of CD36 to thrombospondin and augmented ADP-induced and collagen-induced aggregation in platelet-rich plasma. Human CD36 is 472-aa protein and it contains 2 transmembrane domains. Amino acids 139-155 are located at the extracellular domain.

CD36 (cluster of differentiation 36), also known as FAT (fatty acid translocase), FAT/CD36, (FAT)/CD36, SCARB3, GP88, glycoprotein IV (gpIV), and glycoprotein IIIb (gpIIIb), is an integral membrane protein found on the surface of many cell types in vertebrate animals. CD36 is a member of the class B scavenger receptor family of cell surface proteins. CD36 binds many ligands including collagen, thrombospondin, erythrocytes parasitized with Plasmodium falciparum, oxidized low density lipoprotein, native lipoproteins, oxidized phospholipids, and long-chain fatty acids.

Recent work using genetically modified rodents have identified a clear role for CD36 in fatty acid metabolism, heart disease, taste, and dietary fat processing in the intestine. It may be involved in glucose intolerance, atherosclerosis, arterial hypertension, diabetes, cardiomyopathy and Alzheimer's disease.

CD36 is also known as glycoprotein IV (gpIV) or glycoprotein IIIb (gpIIIb) in platelets and gives rise to the Naka[disambiguation needed] antigen. The Naka null phenotype is found in 0.3% of Caucasians and appears to be asymptomatic. The null phenotype is more common in African (2.5%), Japanese, and other Asian populations (5-11%). Mutations in the human CD36 gene were first identified in a patient who, despite multiple platelet transfusions, continued to exhibit low platelet levels. This condition is known as refractoriness to platelet transfusion. Subsequent studies have shown that CD36 found on the surface of platelets. This antigen is recognized by the monoclonal antibodies (MAbs) OKM5 and OKM8. It is bound by the Plasmodium falciparum protein sequestrin.

All peptides are for in vitro research use only.

Please consult "Frequently asked questions" section at our website for Guidance on storage and solubility of the peptides. http://www.4adi.com/commerce/info/showpage.jsp?page_id=1088&category_id=2427

References: http://www.uniprot.org/uniprot/P16671; Oquendo P (1989) Cell 58, 95-101; Armesilla AL (1994) JBC 269, 18985-18991; L.L.K.Leung et al., J. Biol. Chem., 267, 18244 (1992); T.Yehualaeshet et al., Am. J. Pathol., 155, 841 (1999); T.Yehualaeshet et al., Am. J. Respir. Cell Mol. Biol., 23, 204 (2000)

Related Items

Catalog#	ProdDescription
SP-67680-1	Cys-CD36 (139-155) (AA: Cys-Asn-Leu-Ala-Val-Ala-Ala-Ala-Ser-His-Ile-Tyr-Gln-Asn-Gln-Phe-Val-Gln) (MW: 1977.24)
SP-73061-1	CD36 (93-110)-Cys (AA: Tyr-Arg-Val-Arg-Phe-Leu-Ala-Lys-Glu-Asn-Val-Thr-Gln-Asp-Ala-Glu-Asp-Asn-Cys) (MW: 2271.50)

SP-67680-1-CD36-139-155 150812A

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