

## Human CD36/SR-B3 Alexa Fluor® 405-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 877346 Catalog Number: FAB19552V

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human CD36/SR-B3 in direct ELISAs.
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 877346
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human CD36/SR-B3 Gly30-Asn439 Accession # P16671
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS	
Please Note: Optimal dilutions should be	determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE		
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied	

Optimal dilution of this antibody should be experimentally determined

Immunohistochemistry

CD36, alternatively known as platelet membrane glycoprotein IV (GPIV), GPIIIb, thrombospondin receptor, collagen receptor, fatty acid translocase (FAT), and scavenger receptor class B, member 3 (SR-B3), is an integral membrane glycoprotein that has multiple physiological functions (1). It is broadly expressed on a variety of cell types including microvascular endothelium, adipocytes, skeletal muscle, epithelial cells of the retina, breast, and intestine, smooth muscle cells, erythroid precursors, platelets, megakaryocytes, dendritic cells, monocytes/macrophages, and microglia (1, 2). As a member of the scavenger receptor family, CD36 is a multiligand pattern recognition receptor that interacts with a large number of structurally dissimilar ligands, including long chain fatty acid (LCFA), advanced glycation end products (AGE), thrombospondin-1, oxidized low-density lipoproteins (oxLDLs), high density lipoprotein (HDL), phosphatidylserine, apoptotic cells, β-amyloid fibrils (fAβ), collagens I and IV, and Plasmodium falciparum-infected erythrocytes (3). CD36 is required for the anti-angiogenic effects of thrombospondin-1 in the corneal neovascularization assay (4). It plays a role in lipid metabolism and has been identified as a fatty acid translocase necessary for the binding and transport of LCFA in cells and tissues (5). CD36 has been implicated in the clearance of apoptotic cells and cell debris and has also been shown to mediate the internalization and degradation of a variety of its ligands such as oxLDL, AGE and fAβ (3). Upon ligand binding, CD36 transduces signals that mediate a wide range of pro-inflammatory cellular responses (2). CD36 plays a significant role in the initiation and pathogenesis of chronic inflammatory diseases such as Alzheimer's disease and atherosclerosis (2, 3). The human CD36 gene encodes a single-chain 472 amino acid protein containing both an N- and a C-terminal cytoplasmic tail and an extracellular loop.

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Rev. 9/19/2025 Page 1 of 1

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