

## Human CD36/SR-B3 Alexa Fluor® 700-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF1955N

100 µg

DESCRIPTION				
Species Reactivity	Human			
Specificity	Detects human CD36 in direct ELISAs and Western blots. In direct ELISAs, less than 20% cross-reactivity with recombinant mouse CD36 is observed.			
Source	Polyclonal Goat IgG			
Purification	Antigen Affinity-purified			
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant human CD36 Gly30-Asn439 Accession # P16671			
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

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

## BACKGROUND

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 (oxt.DLs), 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 proinflammatory 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 residue protein containing both an N- and a C-terminal cytoplasmic tail and an extracellular loop.

## PRODUCT SPECIFIC NOTICES

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