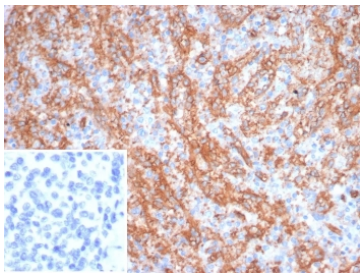
Platelet Glycoprotein 4 Antibody / Lipid Uptake Protein Antibody [clone CD36/7216] (V5825)

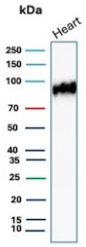
Catalog No.	Formulation	Size
V5825-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5825-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5825SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG
Clone Name	CD36/7216
Purity	Protein A/G affinity
UniProt	P16671
Localization	Cell membrane, Cytoplasm (Golgi)
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This Platelet Glycoprotein 4 Antibody / Lipid Uptake Protein Antibody is available for research use only.



Platelet Glycoprotein 4 Antibody Human Spleen IHC. Immunohistochemical staining of FFPE human spleen demonstrates CD36 expression using Platelet Glycoprotein 4 Antibody clone CD36/7216. Platelet Glycoprotein 4, also known as CD36 and Lipid Uptake Protein, is a class B scavenger receptor involved in fatty acid transport, oxidized lipoprotein uptake, and immune regulation. Prominent membranous staining is observed in splenic macrophages and sinusoidal lining cells, consistent with the known distribution of CD36, while most lymphoid cells exhibit minimal reactivity. The inset shows PBS substituted for the primary antibody as a secondary only negative control. Heat induced epitope retrieval was performed in pH 9 10 mM Tris buffer containing 1 mM EDTA at 95 degrees Celsius for 20 minutes followed by cooling prior to staining. These results support the utility of Platelet Glycoprotein 4 Antibody for studies of lipid metabolism, scavenger receptor biology, inflammation, and immune responses.



Platelet Glycoprotein 4 Antibody Human Heart WB. Western blot analysis of human heart tissue lysate demonstrates CD36 expression using Platelet Glycoprotein 4 Antibody clone CD36/7216. Platelet Glycoprotein 4, also known as CD36 and Lipid Uptake Protein, is a multifunctional scavenger receptor that mediates long chain fatty acid uptake and contributes to cardiac energy metabolism. A prominent band is detected at approximately 90 kDa, consistent with the heavily glycosylated form of CD36. The apparent molecular weight of CD36 is known to vary from approximately 53 to 88 kDa depending on the degree of glycosylation. These results support the utility of Platelet Glycoprotein 4 Antibody for studies of lipid transport, cardiovascular biology, metabolic regulation, and scavenger receptor function.

Description

Platelet Glycoprotein 4 Antibody / Lipid Uptake Protein Antibody recognizes CD36, a multifunctional membrane glycoprotein originally identified on platelets and now known to be widely expressed in macrophages, adipocytes, cardiomyocytes, endothelial cells, and epithelial tissues. Also known as Fatty Acid Translocase and Glycoprotein IV, CD36 belongs to the class B scavenger receptor family and functions as a receptor for oxidized low density lipoproteins, thrombospondin, phospholipids, apoptotic cells, and microbial products. Through these interactions, CD36 serves as both a transporter and signaling receptor that coordinates lipid metabolism, inflammation, and cellular homeostasis.

One of the primary functions of Platelet Glycoprotein 4 is the uptake of long chain fatty acids. CD36 mediated lipid transport contributes to energy production in highly metabolic tissues such as heart and skeletal muscle and also regulates nutrient sensing and metabolic adaptation. In macrophages, CD36 promotes the uptake of oxidized lipoproteins and contributes to foam cell formation during atherosclerosis. In platelets and endothelial cells, CD36 participates in adhesion, angiogenesis, and inflammatory signaling pathways. Through interactions with thrombospondin and toll like receptors, CD36 influences vascular biology and innate immune responses.

Abnormal expression or activity of CD36 has been linked to obesity, insulin resistance, diabetes, fatty liver disease, and cardiovascular disorders. Elevated CD36 expression contributes to lipid accumulation and metabolic dysfunction, while increased macrophage activity promotes chronic inflammation and atherosclerotic plaque formation. In recent years, CD36 has also emerged as an important regulator of cancer metabolism. Increased fatty acid uptake through CD36 has been associated with tumor progression, metastasis, and therapeutic resistance in breast cancer, ovarian cancer, melanoma, and several other malignancies. Consequently, CD36 has become an important target in metabolic and translational research.

Beyond its role in lipid transport, Platelet Glycoprotein 4 participates in platelet activation, immune responses, and tissue remodeling. Dysregulated CD36 signaling has been implicated in ischemic injury, neurodegenerative disorders, and chronic inflammatory diseases. Because CD36 links nutrient metabolism with cellular signaling pathways, it serves as an important biomarker and therapeutic target in numerous disease settings.

Platelet Glycoprotein 4 Antibody / Lipid Uptake Protein Antibody is useful for investigations of lipid metabolism, cardiovascular biology, inflammation, cancer progression, and immune regulation. Clone CD36/7216 has been validated for western blotting and immunohistochemistry, making it a valuable reagent for studies of fatty acid transport, scavenger receptor biology, and metabolic disease.

Visit our CD36 Antibody page to discover additional antibodies against this Fatty Acid Translocase and multifunctional scavenger receptor involved in fatty acid uptake, cardiovascular biology, and cancer metabolism.

Application Notes

Optimal dilution of the Platelet Glycoprotein 4 Antibody / Lipid Uptake Protein Antibody should be determined by the researcher.

Immunogen

A portion of amino acids 200-400 from human Platelet glycoprotein 4 protein was used as the immunogen for the Platelet glycoprotein 4 antibody.

Storage

Aliquot the Platelet glycoprotein 4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

CD36 Antibody, Fatty Acid Translocase Antibody, Glycoprotein IV Antibody, Scavenger Receptor B3 Antibody, Oxidized LDL Receptor Antibody, Thrombospondin Receptor Antibody, Class B Scavenger Receptor Antibody

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