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GPIHBP1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56199

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8IV16
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	19850
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GPIHBP1
Epitope Specificity	61-150/184
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane. Localized at the cell surface.
SIMILARITY	Contains 1 UPAR/Ly6 domain.
SUBUNIT	Binds with high affinity to high-density lipoprotein (HDL) (By similarity). Binds to lipoprotein lipase (LPL), chylomicrons and APOA5.
Post-translational modifications	Glycosylation of Asn-78 is critical for cell surface localization and the binding of chylomicrons and lipoprotein lipase (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GPIHBP1 (glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1) is a capillary endothelial cell protein that provides a platform for LPL-mediated processing of chylomicrons. Consisting of 184 amino acids, GPIHBP1 is a single-pass membrane protein that may be regulated by dietary factors and by PPARγ. Mutations in the gene encoding GPIHBP1 are linked to chylomicronemia syndrome, a rare genetic disorder caused by LPL deficiency and is characterized by enlarged liver and spleen, inflammation of the pancreas, fatty deposits under the skin and possibly deposits in the retina of the eye.

Additional Information

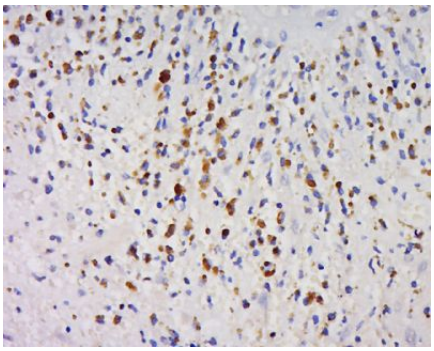
Gene ID	338328
Other Names	Glycosylphosphatidylinositol-anchored high density lipoprotein-binding protein 1, GPI-HBP1, GPI-anchored HDL-binding protein 1, High density lipoprotein-binding protein 1, GPIHBP1, HBP1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GPIHBP1 (HGNC:24945)
Synonyms	HBP1
Function	Mediates the transport of lipoprotein lipase LPL from the basolateral to the apical surface of endothelial cells in capillaries (By similarity). Anchors LPL on the surface of endothelial cells in the lumen of blood capillaries (By similarity). Protects LPL against loss of activity, and against ANGPTL4-mediated unfolding (PubMed:27929370, PubMed:29899144). Thereby, plays an important role in lipolytic processing of chylomicrons by LPL, triglyceride metabolism and lipid homeostasis (PubMed:19304573, PubMed:21314738). Binds chylomicrons and phospholipid particles that contain APOA5 (PubMed:17997385, PubMed:19304573). Binds high-density lipoprotein (HDL) and plays a role in the uptake of lipids from HDL (By similarity).
Cellular Location	Apical cell membrane {ECO:0000250|UniProtKB:Q9D1N2}; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:Q9D1N2}. Basolateral cell membrane {ECO:0000250|UniProtKB:Q9D1N2}; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:Q9D1N2}. Cell membrane; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:Q9D1N2}

Images



Tissue/cell: human schwannoma tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-GPIHBP1 Polyclonal Antibody, Unconjugated(AP56199) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining