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GLTPD1 Rabbit pAb

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Catalog # AP56191

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q5TA50
Predicted	Rat, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24365
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GLTPD1
Epitope Specificity	141-214/214
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	Cytoplasm; cytosol. Golgi apparatus > trans-Golgi network membrane. Cell membrane. Endosome membrane. Nucleus outer membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Mediates the intracellular transfer of ceramide-1-phosphate between organelle membranes and the cell membrane. Required for normal structure of the Golgi stacks. Can bind phosphoceramides with a variety of aliphatic chains, but has a preference for lipids with saturated C16:0 or monounsaturated C18:1 aliphatic chains, and is inefficient with phosphoceramides containing lignoceryl (C24:0). Plays a role in the regulation of the cellular levels of ceramide-1-phosphate, and thereby contributes to the regulation of phospholipase PLA2G4A activity and the release of arachidonic acid. Has no activity with galactosylceramide, lactosylceramide, sphingomyelin, phosphatidylcholine, phosphatidic acid and ceramide.

Additional Information

Gene ID	80772
Other Names	Ceramide-1-phosphate transfer protein {ECO:0000303|PubMed:23863933, ECO:0000305}, CPTP {ECO:0000303|PubMed:23863933, ECO:0000305}, Glycolipid transfer protein domain-containing protein 1, GLTP domain-containing protein 1 {ECO:0000303|PubMed:23863933, ECO:0000305}, CPTP (HGNC:28116)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	CPTP (HGNC:28116)
Function	Mediates the intracellular transfer of ceramide-1-phosphate (C1P) between organelle membranes and the cell membrane. Required for normal structure of the Golgi stacks. Can bind phosphoceramides with a variety of aliphatic chains, but has a preference for lipids with saturated C16:0 or monounsaturated C18:1 aliphatic chains, and is inefficient with phosphoceramides containing lignoceryl (C24:0). Plays a role in the regulation of the cellular levels of ceramide-1- phosphate, and thereby contributes to the regulation of phospholipase PLA2G4A activity and the release of arachidonic acid. Has no activity with galactosylceramide, lactosylceramide, sphingomyelin, phosphatidylcholine, phosphatidic acid and ceramide. C1P transfer is stimulated by phosphatidylserine in C1P source vesicles (PubMed:28011644). Regulates autophagy, inflammasome mediated IL1B and IL18 processing, and pyroptosis, but not apoptosis (PubMed:29164996).
Cellular Location	Cytoplasm, cytosol. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Endosome membrane; Peripheral membrane protein. Nucleus outer membrane; Peripheral membrane protein
Tissue Location	Ubiquitous. Detected in heart, brain, placenta, lung, liver, skeletal muscle, kidney, pancreas, spleen, thymus, prostate, testis, ovary, small intestine, colon and peripheral blood leukocytes.

Background

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