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COL4A3BP Rabbit pAb

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Catalog # AP58267

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y5P4
Reactivity	Rat
Predicted	Human, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	70835
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human COL4A3BP
Epitope Specificity	551-624/624
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. Golgi apparatus. Endoplasmic reticulum.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	COL4A3BP is a kinase that specifically phosphorylates the N terminal region of the non collagenous domain of the alpha 3 chain of type IV collagen, known as the Goodpasture antigen. Goodpasture disease is the result of an autoimmune response directed at this antigen. One isoform of this protein is also involved in ceramide intracellular transport. Two transcripts exist for this gene.

Additional Information

Gene ID	10087
Other Names	Ceramide transfer protein {ECO:0000303|PubMed:14685229, ECO:0000305}, hCERT, Collagen type IV alpha-3-binding protein, Goodpasture antigen-binding protein, GPBP, START domain-containing protein 11, StARD11, StAR-related lipid transfer protein 11, CERT1 (HGNC:2205)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

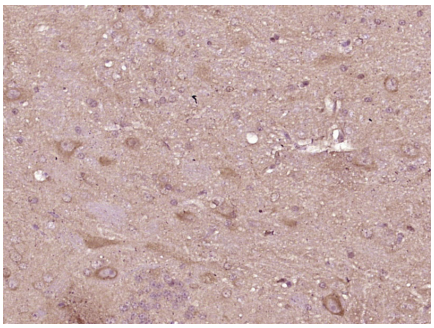
Protein Information

Name	CERT1 (HGNC:2205)
Function	Shelters ceramides inside its steroidogenic acute regulatory lipid transfer (START) domain and mediates their intracellular trafficking in a non-vesicular manner from the endoplasmic reticulum to the Golgi apparatus for conversion to sphingomyelin (PubMed:14685229, PubMed:15596449, PubMed:17392267, PubMed:17591919, PubMed:18184806, PubMed:20036255). Efficiently transfers ceramide molecules having long-chain fatty chains, but not those with very long acyl chains (PubMed:15596449, PubMed:18184806). Capable of transferring diacylglycerol, although with very low efficiency (PubMed:18184806).
Cellular Location	Cytoplasm. Golgi apparatus. Endoplasmic reticulum Note=Preferentially localized to the Golgi apparatus
Tissue Location	Widely expressed.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (COL4A3BP) Polyclonal Antibody, Unconjugated (AP58267) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.