

C1orf84 Rabbit pAb

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Catalog # AP56487

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q5T011
Reactivity	Rat
Predicted	Pig, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	378029
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C1orf84
Epitope Specificity	2201-2300/3432
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	Peroxisome (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	SZT2 (seizure threshold 2 homolog (mouse)), also known as SZT2A or SZT2B, is a 3,432 amino acid peroxisomal protein that plays a role in resistance to oxidative stress. Predominantly expressed in the parietal and frontal cortex, as well as in dorsal root ganglia of the brain, SZT2 is implicated in superoxide dismutase activity and the neuroprotection in peroxisomes. Existing as four alternatively spliced isoforms, SZT2 is thought to enhance epileptogenesis and is encoded by a gene that maps to human chromosome 1p34.2. Human chromosome 1 spans 260 million base pairs, contains over 3,000 genes, comprises nearly 8% of the human genome and houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome.

Additional Information

Gene ID	23334
Other Names	KICSTOR complex protein SZT2, Seizure threshold 2 protein homolog {ECO:0000312 HGNC:HGNC:29040}, SZT2 (HGNC:29040)
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.

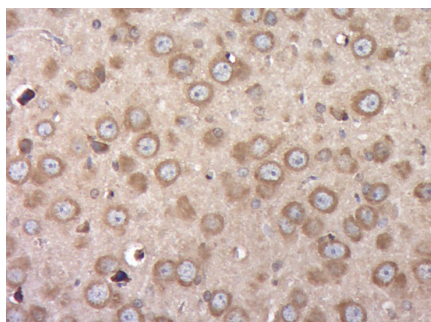
Protein Information

Name	SZT2 (HGNC:29040)
Function	As part of the KICSTOR complex functions in the amino acid- sensing branch of the TORC1 signaling pathway. Recruits, in an amino acid-independent manner, the GATOR1 complex to the lysosomal membranes and allows its interaction with GATOR2 and the RAG GTPases. Functions upstream of the RAG GTPases and is required to negatively regulate mTORC1 signaling in absence of amino acids. In absence of the KICSTOR complex mTORC1 is constitutively localized to the lysosome and activated. The KICSTOR complex is also probably involved in the regulation of mTORC1 by glucose (PubMed: 28199306 , PubMed: 28199315). May play a role in the cellular response to oxidative stress (By similarity).
Cellular Location	Lysosome membrane. Peroxisome {ECO:0000250 UniProtKB:A2A9C3}. Note=Localization to lysosomes is amino acid-independent.
Tissue Location	Expressed in the brain, predominantly in the parietal and frontal cortex, as well as in dorsal root ganglia Expressed in peripheral white blood cells

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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 (C1orf84) Polyclonal Antibody, Unconjugated (AP56487) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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