

C7orf59 Rabbit pAb

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Catalog # AP55915

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q0VGL1
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	10741
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C7orf59
Epitope Specificity	21-99/99
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	Lysosome.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Chromosome 7 is about 158 million bases long, encodes over 1000 genes and makes up about 5% of the human genome. Chromosome 7 has been linked to Osteogenesis imperfecta, Pendred syndrome, Lissencephaly, Citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia. The LOC389541 gene product has been provisionally designated LOC389541 pending further characterization.

Additional Information

Gene ID	389541
Other Names	Ragulator complex protein LAMTOR4, Late endosomal/lysosomal adaptor and MAPK and MTOR activator 4, Ragulator complex protein LAMTOR4, N-terminally processed, LAMTOR4 {ECO:0000303 PubMed:31314152, ECO:0000312 HGNC:HGNC:33772}
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.

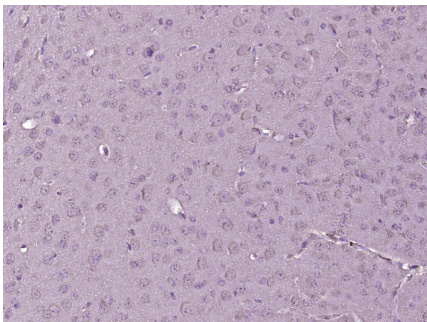
Protein Information

Name	LAMTOR4 {ECO:0000303 PubMed:31314152, ECO:0000312 HGNC:HGNC:33772}
Function	As part of the Ragulator complex it is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids (PubMed: 22980980 , PubMed: 28935770 , PubMed: 29107538 , PubMed: 29158492 , PubMed: 30181260). Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator plays a dual role for the small GTPases Rag (RagA/RRAGA, RagB/RRAGB, RagC/RRAGC and/or RagD/RRAGD): it (1) acts as a guanine nucleotide exchange factor (GEF), activating the small GTPases Rag and (2) mediates recruitment of Rag GTPases to the lysosome membrane (PubMed: 22053050 , PubMed: 22980980 , PubMed: 28935770 , PubMed: 29107538 , PubMed: 29158492 , PubMed: 30181260). Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated (PubMed: 22980980 , PubMed: 28935770 , PubMed: 29107538 , PubMed: 29158492 , PubMed: 30181260).
Cellular Location	Lysosome.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse 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 (C7orf59) Polyclonal Antibody, Unconjugated (AP55915) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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