

C1orf69 Rabbit pAb

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Catalog # AP55779

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q5T440
Reactivity	Rat
Predicted	Pig, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38155
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human C1orf69
Epitope Specificity	131-230/256
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	Mitochondrion (Potential).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Belonging to the CAF17 subfamily of the gcvT family, C1orf69 is a 356 amino acid mitochondrial protein that is required for normal heme synthesis. Heme synthesis is dependent upon receiving iron through iron sulfur (Fe-S) cluster biogenesis proteins such as C1orf69, which is specifically thought to assemble Fe-S clusters for mitochondrial aconitase and lipoate synthase. In zebrafish, deficiency of C1orf69 causes anemia. The gene encoding C1orf69 maps to human chromosome 1, the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1.

Additional Information

Gene ID	200205
Other Names	Iron-sulfur cluster assembly factor IBA57, mitochondrial, Iron-sulfur cluster assembly factor homolog, IBA57, C1orf69
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.

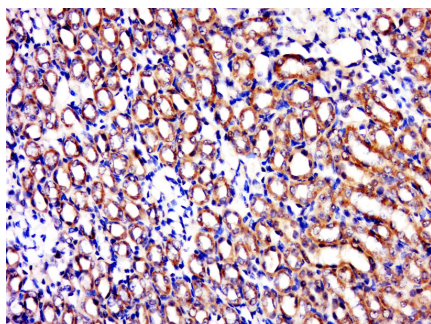
Protein Information

Name	IBA57
Synonyms	C1orf69
Function	Mitochondrial protein involved in the maturation of mitochondrial [4Fe-4S]-proteins in the late stage of the iron-sulfur cluster assembly pathway (PubMed: 2323289 , PubMed: 23462291). Operates in cooperation with ISCA2 in the maturation of [4Fe-4S] proteins (PubMed: 30269484).
Cellular Location	Mitochondrion
Tissue Location	Expressed in skin fibroblasts and skeletal muscle (at protein level).

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Images



Paraformaldehyde-fixed, paraffin embedded (rat kidney); 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 (C1orf69) Polyclonal Antibody, Unconjugated (AP55779) at 1:5000 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.

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