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ELAC2/HPC2 Rabbit pAb

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Catalog # AP58146

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BQ52
Reactivity	Human
Predicted	Rat, Dog, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92219
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ELAC2
Epitope Specificity	88-190/826
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. Nucleus. Note=Mainly mitochondrial.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ELAC2 is a zinc phosphodiesterase which displays some tRNA 3' processing endonuclease activity. It is thought to be involved in tRNA maturation, acting by removing a 3' trailer from precursor tRNA. ELAC2 also interacts with activated Smad family member 2 (Smad2) and its nuclear partner forkhead box H1 (also known as FAST-1), and reduced expression can suppress transforming growth factor-beta induced growth arrest. Mutations in this gene result in an increased risk of prostate cancer. A number of allelic variants have been investigated in hereditary prostate cancer.

Additional Information

Gene ID	60528
Other Names	Zinc phosphodiesterase ELAC protein 2, 3.1.26.11, ElaC homolog protein 2, Heredity prostate cancer protein 2, Ribonuclease Z 2, RNase Z 2, tRNA 3 endonuclease 2, tRNase Z 2, ELAC2, HPC2
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.

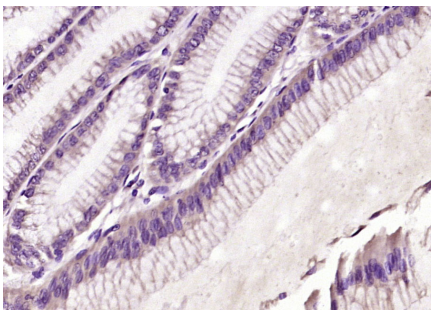
Protein Information

Name	ELAC2
Synonyms	HPC2
Function	Zinc phosphodiesterase, which displays mitochondrial tRNA 3'- processing endonuclease activity. Involved in tRNA maturation, by removing a 3'-trailer from precursor tRNA (PubMed:21593607). Associates with mitochondrial DNA complexes at the nucleoids to initiate RNA processing and ribosome assembly (PubMed:24703694).
Cellular Location	Mitochondrion. Mitochondrion matrix, mitochondrion nucleoid. Nucleus Note=Mainly mitochondrial
Tissue Location	Widely expressed. Highly expressed in heart, placenta, liver, skeletal muscle, kidney, pancreas, testis and ovary Weakly expressed in brain, lung, spleen, thymus, prostate, small intestine, colon and leukocytes.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (human gastric carcinoma); 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 (ELAC2) Polyclonal Antibody, Unconjugated (AP58146) at 1:200 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'.