

ELAC2/HPC2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58146

Specification

ELAC2/HPC2 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, E

Primary Accession

Reactivity

Host

Clonality

Calculated MW

Physical State

Pige 1980 298052

Rat, Dog

Rabbit

Polyclonal

92 KDa

Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human ELAC2

Epitope Specificity 88-190/826

Isotype Purity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Mitochondrion. Nucleus. Note=Mainly

mitochondrial.

SIMILARITY
SUBUNIT
Important Note

Belongs to the RNase Z family.
Homodimer. Interacts with PTCD1.
This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

affinity purified by Protein A

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.

ELAC2/HPC2 Polyclonal Antibody - 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

Target/Specificity

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.



Dilution

- IHC-P~~N/A<br \> <span class
 ="dilution_IHC-F">IHC-F~~N/A<br \> <span class
 ="dilution_IF">IF~~1:50~200<br \> E~~N/A
- **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.

ELAC2/HPC2 Polyclonal Antibody - 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.

ELAC2/HPC2 Polyclonal Antibody - Protocols

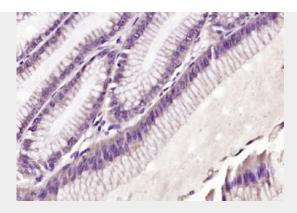
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

ELAC2/HPC2 Polyclonal Antibody - 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 (bs-4276R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.