10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ELAC2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP9434c

Specification

ELAC2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q9BQ52

ELAC2 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 60528

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ELAC2 Antibody (Center) Blocking Peptide - 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.

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ELAC2 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

ELAC2 Antibody (Center) Blocking Peptide - Images

ELAC2 Antibody (Center) Blocking Peptide - Background

ELAC2 has a C-terminal domain with tRNA; processing endoribonuclease activity, which catalyzes the removal of the 3' trailer from precursor tRNAs. The protein 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.

ELAC2 Antibody (Center) Blocking Peptide - References

Beuten, J., et al. Cancer Epidemiol. Biomarkers Prev. 19(2):588-599(2010)Elbarbary, R.A., et al. FEBS Lett. 583(19):3241-3246(2009)Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007)Noda, D., et al. Oncogene 25(41):5591-5600(2006)Takaku, H., et al. Nucleic Acids Res. 31(9):2272-2278(2003)