

RNase Z2 Polyclonal Antibody

Catalog No :	YT4152
Reactivity :	Human;Rat;Mouse;
Applications :	IHC;IF;ELISA
Target :	RNase Z2
Gene Name :	ELAC2
Protein Name :	Zinc phosphodiesterase ELAC protein 2
Human Gene Id :	60528
Human Swiss Prot No :	Q9BQ52
Mouse Swiss Prot No :	Q80Y81
Immunogen :	The antiserum was produced against synthesized peptide derived from human ELAC2. AA range:161-210
Specificity :	RNase Z2 Polyclonal Antibody detects endogenous levels of RNase Z2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	92kD

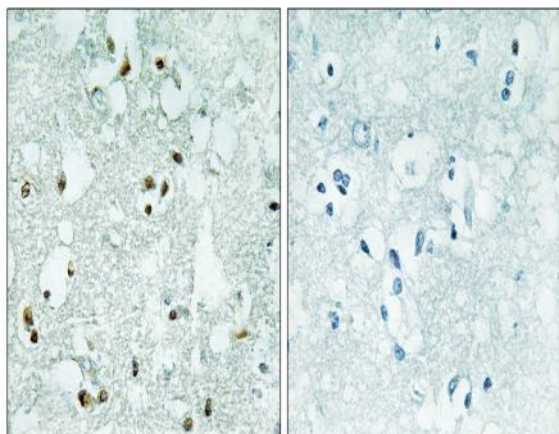
Background : The protein encoded by this gene has a C-terminal domain with tRNA 3' processing endoribonuclease activity, which catalyzes the removal of the 3' trailer from precursor tRNAs. The protein also interacts with activated Smad family member 2 (Smad2) and its nuclear partner forkhead box H1 (also known as FAST-1), and reduced expression can suppress transforming growth factor-beta induced growth arrest. Mutations in this gene result in an increased risk of prostate cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009],

Function : catalytic activity:Endonucleolytic cleavage of RNA, removing extra 3' nucleotides from tRNA precursor, generating 3' termini of tRNAs. A 3'-hydroxy group is left at the tRNA terminus and a 5'-phosphoryl group is left at the trailer molecule.,cofactor:Zinc.,disease:Defects in ELAC2 are involved in prostate cancer (CaP) [MIM:176807].,function:Zinc phosphodiesterase, which displays some tRNA 3'-processing endonuclease activity. Probably involved in tRNA maturation, by removing a 3'-trailer from precursor tRNA.,similarity:Belongs to the RNase Z family.,subunit:Homodimer.,tissue 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.,

Subcellular Location : Mitochondrion . Mitochondrion matrix, mitochondrion nucleoid . Nucleus . Mainly mitochondrial.

Expression : 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.

Products Images



Immunohistochemistry analysis of paraffin-embedded human brain, using ELAC2 Antibody. The picture on the right is blocked with the synthesized peptide.