

Immunotag™ RNase Z2 Polyclonal Antibody

Antibody Specification	
Catalog No.	ITT4152
Product Description	Immunotag™ RNase Z2 Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	RNase Z2
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	IHC-p,ELISA
Recommended Dilution	Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Rabbit
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.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	ELAC2
Accession No.	Q9BQ52 Q80Y81
Alternate Names	ELAC2; HPC2; 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

Antibody Specification

Description	elaC ribonuclease Z 2(ELAC2) Homo sapiens 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],
Protein Expression	Epithelium,Hippocampus,Liver,Lung,Teratocarcinoma,Thalamus,
Subcellular Localization	nucleus,nucleoplasm,mitochondrion,mitochondrial matrix,mitochondrial nucleoid,
Protein 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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.