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

TST/Thiosulfate sulfurtransferase Rabbit pAb

Catalog # AP98971

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q16762
Other Accession	Q16762
Predicted	Rat, Pig, Cat, Human, Mouse, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33429
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TST
Epitope Specificity	121-230/297
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 2 rhodanese domains.
SUBUNIT	Monomer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This is one of two neighboring genes encoding similar proteins that each contain two rhodanese domains. The encoded protein is localized to the mitochondria and catalyzes the conversion of thiosulfate and cyanide to thiocyanate and sulfite. In addition, the protein interacts with 5S ribosomal RNA and facilitates its import into the mitochondria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]

Additional Information

Gene ID	7263
Other Names	RDS; rhodanese; RHODAN; THTR_BOVIN; TST; 2.8.1.1; THTR_HUMAN; THTR_MOUSE; THTR_RAT; thiosulfate sulfurtransferase; thiosulfate sulfurtransferase (rhodanese)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	TST (HGNC:12388)
Function	Catalyzes the transfer of sulfur ion from thiosulfate to cyanide, although other thiol compounds, besides cyanide, can act as sulfur ion acceptors (By similarity). It also has weak mercaptopyruvate sulfurtransferase (MST) activity (By similarity). Has a pivotal role in cyanide detoxification (PubMed:40033006). Together with MRPL18, acts as a mitochondrial import factor for the cytosolic 5S rRNA. Only the nascent unfolded cytoplasmic form is able to bind to the 5S rRNA (PubMed:20663881, PubMed:21685364).
Cellular Location	Mitochondrion {ECO:0000250|UniProtKB:P24329}. Mitochondrion matrix

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.