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

TST Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21669b

Product Information

Application	WB, E
Primary Accession	Q16762
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53290
Calculated MW	33429

Additional Information

Gene ID	7263
Other Names	Thiosulfate sulfurtransferase, Rhodanese, TST
Target/Specificity	This TST antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 208-232 amino acids from the human TST.
Dilution	WB~~1:8000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TST Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

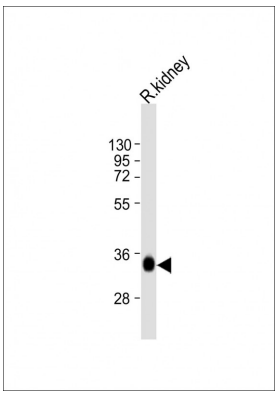
Background

Formation of iron-sulfur complexes, cyanide detoxification or modification of sulfur-containing enzymes. Other thiol compounds, besides cyanide, can act as sulfur ion acceptors. Also has weak mercaptopyruvate sulfurtransferase (MST) activity (By similarity). 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.

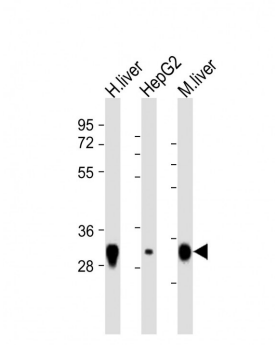
References

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Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham I.,et al.Nature 402:489-495(1999).

Images



Anti-TST Antibody (C-Term) at 1:2000 dilution + rat kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-TST Antibody (C-Term) at 1:8000 dilution Lane 1: human liver lysate Lane 2: HepG2 lysate Lane 3: mouse liver lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 33 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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