

Rabbit anti-Human TST Polyclonal Antibody | anti-TST antibody

Anti-TST Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA256476	Rabbit	Human	Immunoprecipitation, Immunofluorescence, Immunocytochemistry, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

TST; Polyclonal Antibody; Anti-TST Antibody; Rabbit Polyclonal; TST Antibody; Rabbit PAb; Antigen Affinity Purified; thiosulfate sulfurtransferase (rhodanese); Anti-LL22NC01-146D10.3 Antibody; Anti-RDS Antibody; anti-TST antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human TST
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-TST antibody	IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human TST fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human TST fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

TST was immunoprecipitated using: Lane A: 0.5 mg HeLa Whole Cell Lysate 4 uL anti-TST rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-TST rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 33 kDa. Observed band size: 34 kDa.



IF (Immunofluorescence)

Immunofluorescence staining of TST in A431 cells. Cells were fixed with 4% PFA, permeabilized with 0.1% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human TST polyclonal antibody (dilution ratio 1:200) at 4 degree C overnight. Then cells were stained with the Alexa Fluor 488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to Cytoplasm.



IHC (Immunohistochemisry)

Immunochemical staining of human TST in human large intestine with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohiostchemistry)

Immunochemical staining of human TST in human liver with rabbit polyclonal antibody at 1:500 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-TST rabbit polyclonal antibody at 1:500 dilution Lane A: HeLa Whole Cell Lysate Lane B: K562 Whole Cell Lysate Lane C: Jurkat Whole Cell Lysate Lane D: U-251 MG Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 33 kDa Observed band size: 33 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-TST antibody

Thiosulfate sulfurtransferase (TST, EC 2.8.1.1), also known as Rhodanese, is a mitochondrial enzyme that catalyzes the transfer of sulfur in several molecular pathways. The TST gene, located on 22q12.3, is conserved in chimpanzee, Rhesus monkey, dog, cow, mouse, rat, chicken, C.elegans, and frog. 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. Also, the protein interacts with 5S ribosomal RNA and facilitates its import into the mitochondria. TST is widely expressed in the colon, liver, and other tissues. TST deficiency was shown to be strongly related to the pathophysiology of metabolic diseases including diabetes and obesity.

References

WÅ,odek P, et al. (2010) Thiol levels, protein carbonylation and anaerobic sulfur metabolism in erythrocytes of peritoneal dialysis and predialysis patients. Nephrology (Carlton) 15 (8): 755-761. Libiad M, et al. (2015) Polymorphic variants of human rhodanese exhibit differences in thermal stability and sulfur transfer kinetics. J Biol Chem 290 (39): 23579-23588. Kruithof PD, et al. (2020) Unraveling the role of thiosulfate sulfurtransferase in metabolic diseases. Biochim Biophys Acta Mol Basis Dis 1866 (6): 165716.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tst-antibody-immunoprecipitation-immunofluorescence-immunocytochemistry-immunohistochemistry-western-blot-elisa/256476>