

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

Anti-TST Antibody, Rabbit Polyclonal

|                               |                       |                            |                                             |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA255223</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|-----------------------|----------------------------|---------------------------------------------|

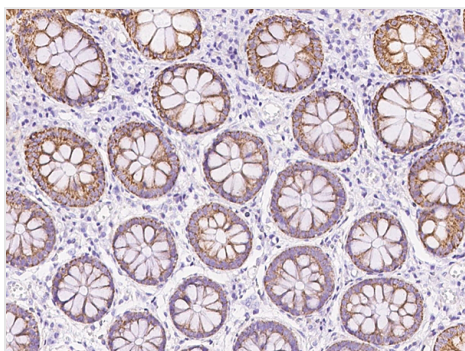
### PRODUCT SYNONYMS

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

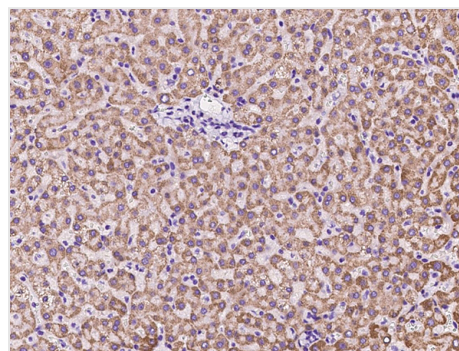
|                                               |                                                                                                                                                                                                                                                    |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 | IHC (Immunohistochemistry)                                                                                                                                                                                                                         |
| Immunogen                                     | A synthetic peptide corresponding to the center region of the Human TST                                                                                                                                                                            |
| Conjugation                                   | Unconjugated                                                                                                                                                                                                                                       |
| Preparation                                   | Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human TST, 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



**IHC (Immunohistochemistry)**

Immunochemical staining of human TST in human colon with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



**IHC (Immunohistochemistry)**

Immunochemical staining of human TST in human liver with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

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.Kruihof PD, et al. (2020) Unraveling the role of thiosulfate sulfurtransferase in metabolic diseases. Biochim Biophys Acta Mol Basis Dis 1866 (6): 165716.                                                                                                                                                                                                                                                                                                                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GI #                        | 395394071                                 |
| NCBI GeneID                      | 7263                                      |
| NCBI Accession #                 | NP_001257412.1                            |
| NCBI GenBank Nucleotide #        | NM_001270483.1                            |
| UniProt Accession #              | Q16762; Q6IB06; B3KRM1                    |
| Molecular Weight                 | 33,429 Da                                 |
| NCBI Official Full Name          | thiosulfate sulfurtransferase             |
| NCBI Official Synonym Full Names | thiosulfate sulfurtransferase (rhodanese) |
| NCBI Official Symbol             | TST                                       |
| NCBI Official Synonym Symbols    | RDS                                       |
| NCBI Protein Information         | thiosulfate sulfurtransferase             |
| UniProt Protein Name             | Thiosulfate sulfurtransferase             |
| UniProt Gene Name                | TST                                       |
| UniProt Entry Name               | THTR_HUMAN                                |

**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.