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Goat Anti-Triosephosphate isomerase Antibody

Peptide-affinity purified goat antibody
Catalog # AF2113a

Specification

Goat Anti-Triosephosphate isomerase Antibody - Product Information

Application	**WB, IHC**
Primary Accession	P60174
Other Accession	NP_001152759, 7167
Reactivity	**Human, Mouse**
Predicted	**Rat, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5mg/ml**
Isotype	**IgG**
Calculated MW	**26669**

Goat Anti-Triosephosphate isomerase Antibody - Additional Information

Gene ID 7167

Other Names
Triosephosphate isomerase, TIM, 5.3.1.1, Triose-phosphate isomerase, TPI1, TPI

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-Triosephosphate isomerase Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Triosephosphate isomerase Antibody - Protein Information

Name TPI1

Synonyms TPI

Function
Triosephosphate isomerase is an extremely efficient metabolic enzyme that catalyzes the interconversion between dihydroxyacetone phosphate (DHAP) and D-glyceraldehyde-3-phosphate (G3P) in glycolysis and gluconeogenesis.

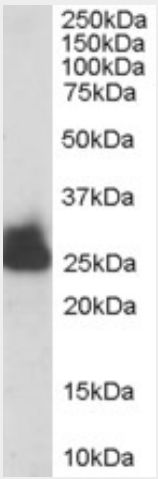
Cellular Location
Cytoplasm {ECO:0000255|PROSITE-ProRule:PRU10127}.

Goat Anti-Triosephosphate isomerase Antibody - Protocols

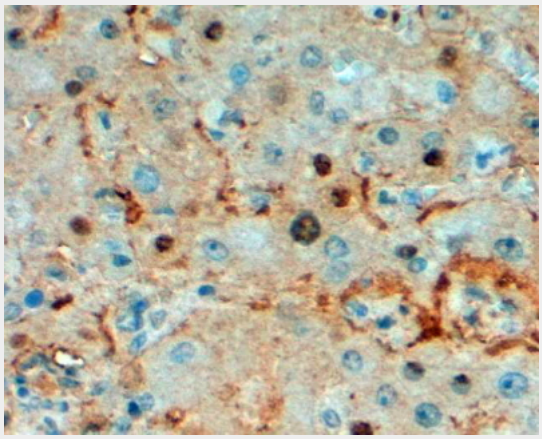
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Triosephosphate isomerase Antibody - Images



AF2113a staining (0.003 µg/ml) of human liver lysate (RIPA buffer, 30 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



AF2113a (2 µg/ml) staining of paraffin embedded Human Liver Steamed antigen retrieval with Tris/EDTA buffer pH 9, HRP-staining.

Goat Anti-Triosephosphate isomerase Antibody - Background

This gene encodes an enzyme, consisting of two identical proteins, which catalyzes the isomerization of glyceraldehydes 3-phosphate (G3P) and dihydroxy-acetone phosphate (DHAP) in glycolysis and gluconeogenesis. Mutations in this gene are associated with triosephosphate isomerase deficiency. Pseudogenes have been identified on chromosomes 1, 4, 6 and 7. Alternative splicing results in multiple transcript variants.

Goat Anti-Triosephosphate isomerase Antibody - References

Proteome analysis of the thalamus and cerebrospinal fluid reveals glycolysis dysfunction and potential biomarkers candidates for schizophrenia. Martins-de-Souza D, et al. J Psychiatr Res, 2010 May 14. PMID 20471030. Triose phosphate isomerase deficiency associated with two novel mutations in TPI gene. Fermo E, et al. Eur J Haematol, 2010 Aug. PMID 20374271. [Identification and expression of two new secretory proteins associated with prostate cancer] Qian XL, et al. Yi Chuan, 2010 Mar. PMID 20233700. Proteome analysis of schizophrenia patients Wernicke's area reveals an energy metabolism dysregulation. Martins-de-Souza D, et al. BMC Psychiatry, 2009 Apr 30. PMID 19405953. Analysis of TPI gene promoter variation in three sub-Saharan Africa population samples. Manco L, et al. Am J Hum Biol, 2009 Jan-Feb. PMID 18792062.