




Rabbit Anti-Triosephosphate isomerase antibody

SL4042R

Product Name:	Triosephosphate isomerase
Chinese Name:	磷酸丙糖异构酶抗体
Alias:	TIM; TPI 1; TPI; TPI1; Triose phosphate isomerase 1; Triose phosphate isomerase; Triosephosphate isomerase 1; Triosephosphate isomerase; MGC88108; TPIS_HUMAN.
文献引用  :	Specific References(1) SL4042R has been referenced in 1 publications. [IF=7.25] Yao, Chun, et al. "Role of FADD Phosphorylation in Regulating Glucose Homeostasis: from Proteomic Discovery to Physiological Validation." Molecular & Cellular Proteomics (2013). WB;Mouse. PubMed:23828893
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	27kDa
Cellular localization:	The nucleuscytoplasmicExtracellular matrix
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Triosephosphate isomerase:151-249/249
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year

	when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	<p>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. [provided by RefSeq]</p> <p>Subunit: Homodimer.</p> <p>Post-translational modifications: The initiator methionine for isoform 2 is removed.</p> <p>DISEASE: Triosephosphate isomerase deficiency (TPI deficiency) [MIM:190450]: Autosomal recessive disorder. It is the most severe clinical disorder of glycolysis. It is associated with neonatal jaundice, chronic hemolytic anemia, progressive neuromuscular dysfunction, cardiomyopathy and increased susceptibility to infection. Note=The disease is caused by mutations affecting the gene represented in this entry.</p> <p>Similarity: Belongs to the triosephosphate isomerase family.</p> <p>SWISS: P60174</p> <p>Gene ID: 7167</p> <p>Database links:</p> <p>UniProtKB/Swiss-Prot: P60174.3</p> <p>Entrez Gene: 281543Cow</p> <p>Entrez Gene: 7167Human</p> <p>Entrez Gene: 21991Mouse</p> <p>Entrez Gene: 24849Rat</p> <p>Omim: 190450Human</p> <p>SwissProt: Q5E956Cow</p> <p>SwissProt: P54714Dog</p>

[SwissProt: P60174](#)Human

Important Note:

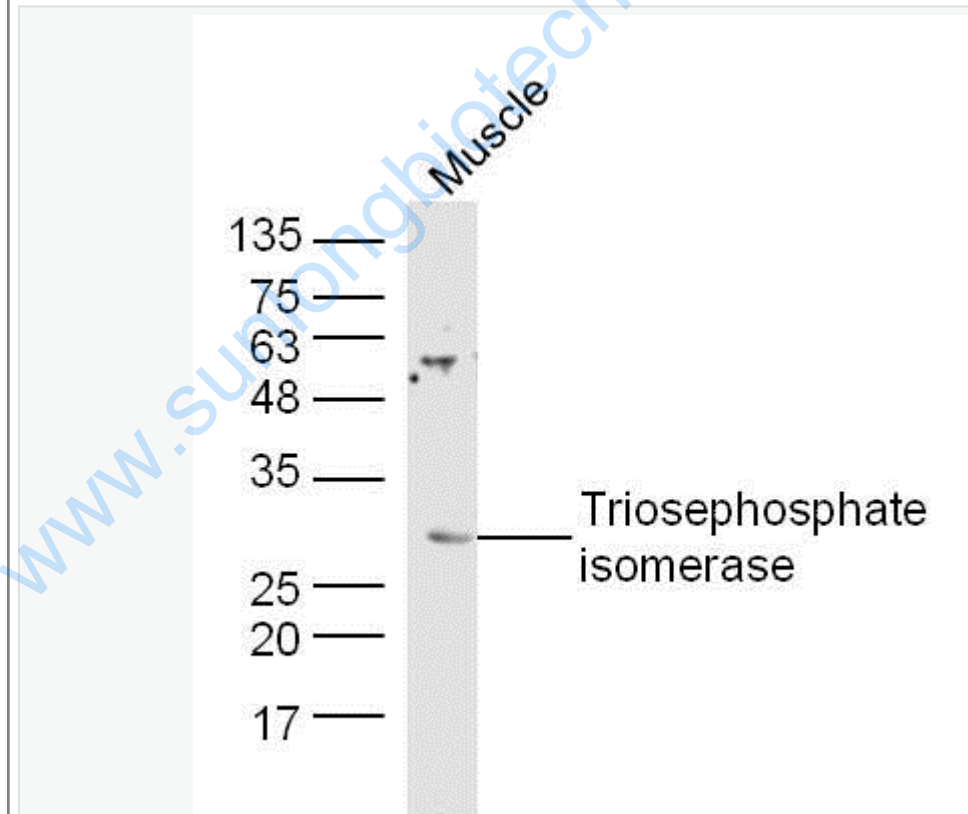
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磷酸丙糖异构酶(Triose-phosphate isomerase, 通常简称为TPI或TIM)是一种能够催化丙糖磷酸异构体在二羟丙酮磷酸和D型甘油醛-3-磷酸之间转换。

磷酸丙糖异构酶在糖酵解中具有重要作用, 对于有效的能量生成是必不可少的。磷酸丙糖异构酶被发现存在于几乎所有的生物体, 包括哺乳动物、Insect、真菌、B otany和大多数细菌中。

如果人体缺乏磷酸丙糖异构酶, 会导致严重的神经系统紊乱, 该病症被称为磷酸丙糖异构酶缺乏症。

Picture:



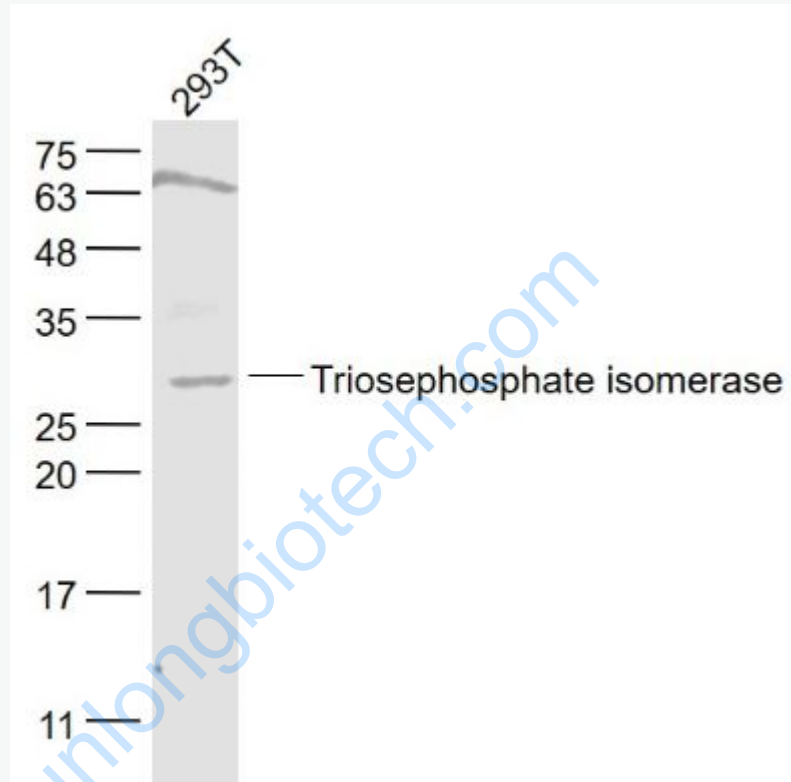
Sample: Muscle (Mouse) Lysate at 40 ug

Primary: Anti-Triosephosphate isomerase (SL4042R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 27 kD

Observed band size: 30 kD



Sample:

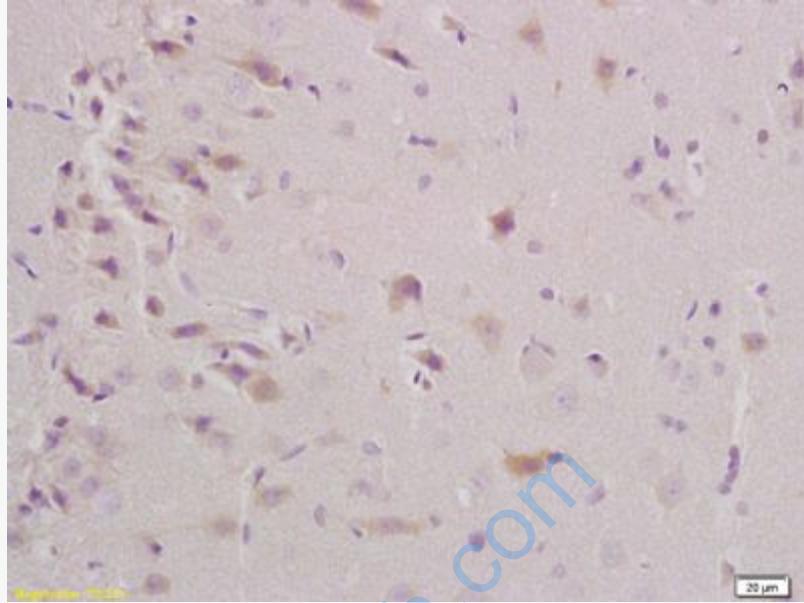
293T(Human) Cell Lysate at 30 ug

Primary: Anti- Triosephosphate isomerase (SL4042R) at 1/1000 dilution

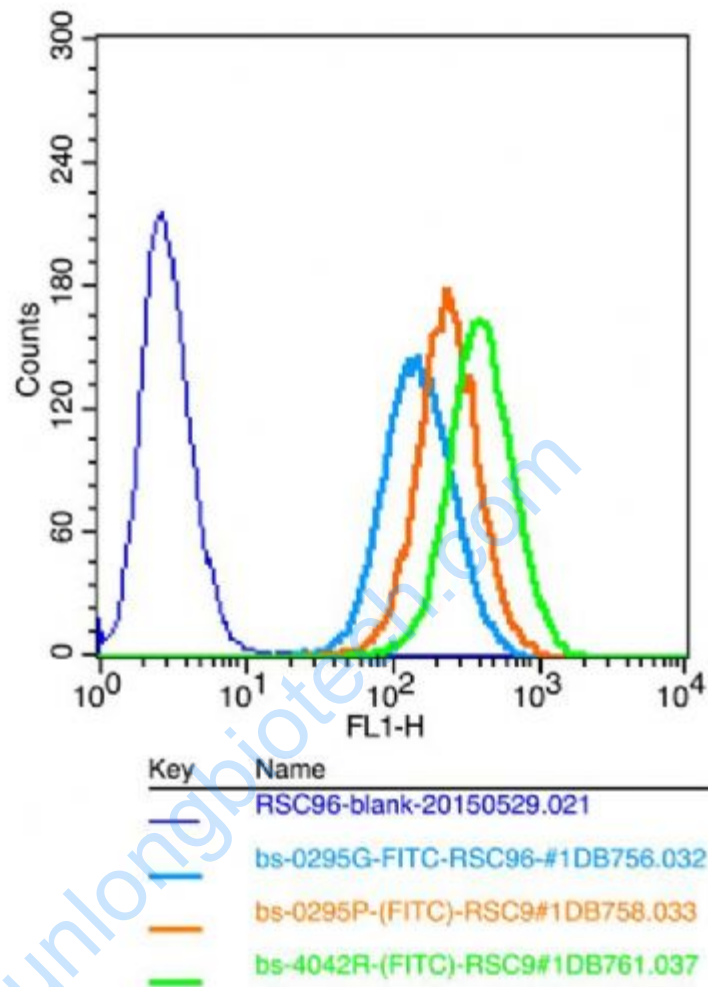
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 27 kD

Observed band size: 27 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-TPIS Polyclonal Antibody, Unconjugated(SL4042R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Positive control(blue): RSC96 cells

Isotype control(orange): Cell lines treated with rabbit IgG (SL4042R)instead of the primary antibody to confirm that primary antibody binding is specific. primary

antibody(Green):Anti-Triosephosphate isomerase

antibody(SL4042R),Concebtration: $5\mu\text{g}/10^6$ cells

Secondary only control(light blue): Both cell lines treated with Goat Anti-rabbit IgG/FITC antibody (SL4042R) to confirm no background signal produced from secondary antibody alone.

