

## **TPI1 Antibody (N-term)**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2917a

### **Specification**

# **TPI1** Antibody (N-term) - Product Information

Application Primary Accession Other Accession

Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region FC, IHC-P, WB,E <u>P60174</u> <u>P48500, P00939, Q29371, P17751, Q60HC9,</u> <u>Q5E956</u> Human, Mouse Bovine, Monkey, Pig, Rabbit, Rat Rabbit Polyclonal Rabbit IgG 26669 68-96

## **TPI1** Antibody (N-term) - Additional Information

Gene ID 7167

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

#### Target/Specificity

This TPI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 68-96 amino acids from the N-terminal region of human TPI1.

**Dilution** FC~~1:10~50 IHC-P~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### 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

TPI1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

# **TPI1** Antibody (N-term) - Protein Information



Name TPI1

Synonyms TPI

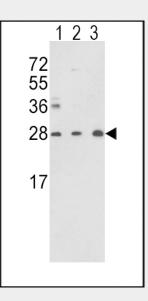
**Function** Triosephosphate isomerase is an extremely efficient metabolic enzyme that catalyzes the interconversion between dihydroxyacetone phosphate (DHAP) and D-glyceraldehyde-3-phosphate (G3P) in glycolysis and gluconeogenesis.

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

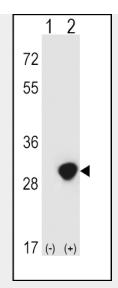
# **TPI1 Antibody (N-term) - Protocols**

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

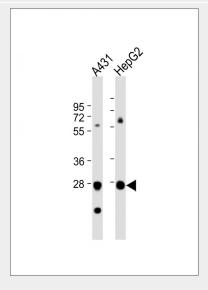
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>
- **TPI1 Antibody (N-term) Images**



Western blot analysis of TPI1 Antibody (N-term) (Cat. #AP2917a) in Y79(lane 1),CEM(lane 2) cell line and mouse brain tissue(lane 3) lysates (35ug/lane). TPI1 (arrow) was detected using the purified Pab.(2ug/ml)

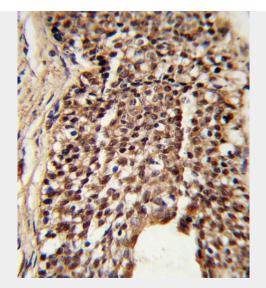


Western blot analysis of TPI1 (arrow) using rabbit polyclonal TPI1 Antibody (N-term) (Cat. #AP2917a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the TPI1 gene.

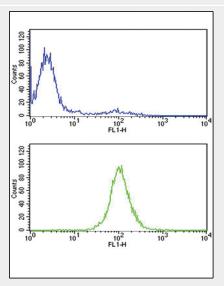


All lanes : Anti-TPI1 Antibody (N-term) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.





Formalin-fixed and paraffin-embedded human prostate carcinoma reacted with TPI1 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



TPI1 Antibody (N-term) (Cat. #AP2917a) flow cytometric analysis of CEM cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

# TPI1 Antibody (N-term) - Background

TPI1 is 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.

# **TPI1 Antibody (N-term) - References**

Martins-de-Souza, D., et.al., BMC Psychiatry 9, 17 (2009)