

TPI1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2917A

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P60174
Other Accession	P48500 , P00939 , Q29371 , P17751 , Q60HC9 , Q5E956
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Monkey, Pig, Rabbit, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20861
Calculated MW	26669
Antigen Region	68-96

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	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 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.

Protein Information

Name	TPI1 (HGNC:12009)
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}.

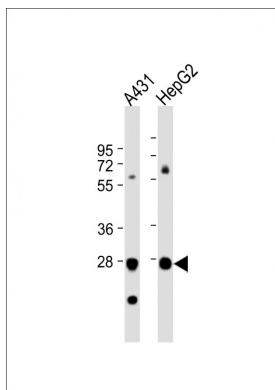
Background

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.

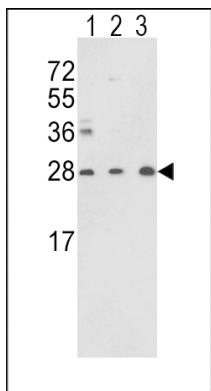
References

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

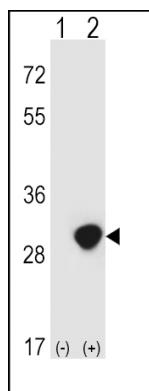
Images



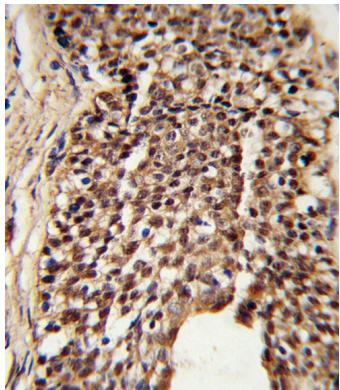
All lanes : Anti-TPI1 Antibody (N-term) at 1:1000 dilution
Lane 1: A431 whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



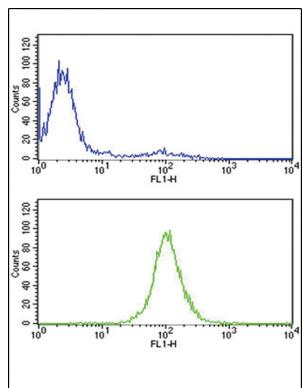
Western blot analysis of TPI1 Antibody (N-term) (Cat. #AP2917a) in Y79(lane 1), CEM(lane 2) cell line and mouse brain tissue(lane 3) lysates (35ug/lane). TPI1 (arrow) was detected using the purified Pab.(2ug/ml)



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.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.