10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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}.

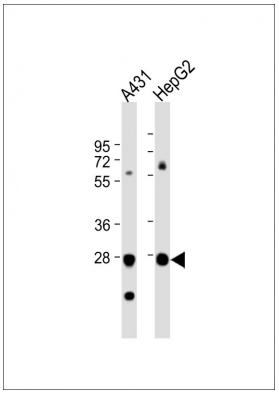
Background

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.

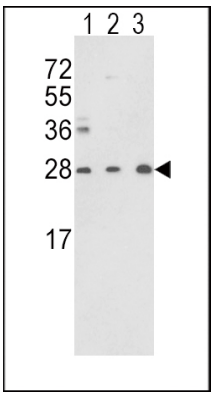
References

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

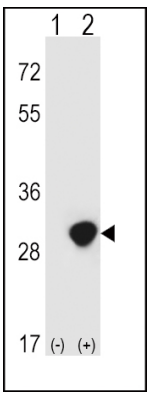
Images



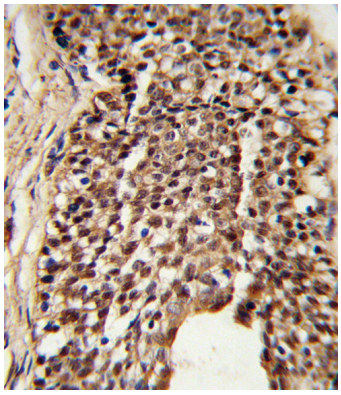
All lanes : Anti-TPI1 Antibody (N-term) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



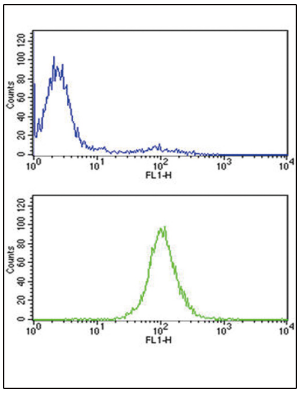
Western blot analysis of TPI1 Antibody (N-term) (Cat. #AP2917a) in Y79(lane 1),CEM(lane 2) cell line and mouse brain tissue(lane 3) lysates (35ug/lane). TPI1 (arrow) was detected using the purified Pab.(2ug/ml)



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'.