

For Research Use Only

TPI1 Polyclonal antibody

Catalog Number: 10713-1-AP

Featured Product

25 Publications



Basic Information

Catalog Number:

10713-1-AP

Size:

150ul, Concentration: 500 µg/ml by Nanodrop and 213 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1175

GenBank Accession Number:

BC007086

GeneID (NCBI):

7167

Full Name:

triosephosphate isomerase 1

Calculated MW:

27 kDa

Observed MW:

27 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:12000

IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB

IHC 1:50-1:500

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse, rat

Cited Species:

Drosophila, human, mouse, pig, rat, Yeast

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: HEK-293 cells, mouse liver tissue, A431 cells, HepG2 cells, mouse kidney tissue, rat kidney tissue, RAW 264.7 cells, rat liver tissue, NIH/3T3 cells

IP: HEK-293 cells,

IHC: human colon cancer tissue,

Background Information

TPI1 (Triosephosphate isomerase) is also named as TIM, TPI and belongs to the triosephosphate isomerase family. It is a key enzyme in cell metabolism that controls the glycolytic flow and energy production through the interconversion of dihydroxyacetone phosphate (DHAP) and D-glyceraldehyde 3-phosphate (G3P) (PMID:19251756). Defects in TPI1 are the cause of triosephosphate isomerase deficiency (TPI deficiency). It can exist as a homodimer (PMID:18562316).

Notable Publications

Author	Pubmed ID	Journal	Application
Chelsea M Winters	29040005	DNA Cell Biol	WB
Valera Vladimir A VA	20975849	J Cancer	IHC
Minzhe Zhu	33059001	Biochim Biophys Acta Mol Basis Dis	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

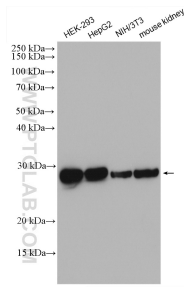
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

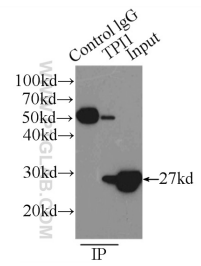
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10713-1-AP (TPI1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 10713-1-AP (TPI1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-TPI1 (IP:10713-1-AP, 3ug; Detection:10713-1-AP 1:1000) with HEK-293 cells lysate 2500ug.