For Research Use Only

TPTE Polyclonal antibody

Catalog Number:12982-1-AP

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Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
12982-1-AP

Size:
150ul , Concentration: 260 µg/ml by Nanodrop and 247 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG3606

GenBank Accession Number:
BC028719

GeneID (NCBI):
7179

UNIPROT ID:
P56180

Full Name:
transmembrane phosphatase with tensin homology

Calculated MW:
62 kDa, 64 kDa

Observed MW:
62 kDa, 64 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:20-1:200
IF/ICC 1:10-1:100

Applications

Tested Applications:
WB, IF, IHC, ELISA

Species Specificity:
human, mouse

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 : HepG2 cells, HEK-293 cells, human testis tissue, BxPC-3 cells, mouse testis tissue

IHC : human testis tissue,

IF/ICC : BxPC-3 cells,

Background Information

TPTE(Transmembrane phosphatase with tensin homology) is also named as CT44, BJ-HCC-5 and belongs to the non receptor class of the protein-tyrosine phosphatase family. The gene encodes a predicted polypeptide of 551 amino acids with at least 2 potential transmembrane domains and a tyrosine phosphatase motif. TPTE may be involved in the signal transduction pathways of the endocrine or spermatogenic function of the testis(PMID:10598804). It is putatively involved in linking the cell membrane to cytoskeleton. This protein is very similar in sequence to PTEN through the phosphatase and C2 domains, but lacks a PDZ binding motif and an extensively phosphorylated C-terminal tail(PMID:17240336). It has 4 isoforms produced by alternative splicing.

Storage

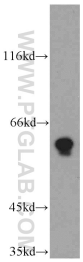
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

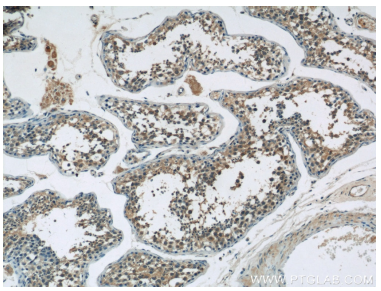
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

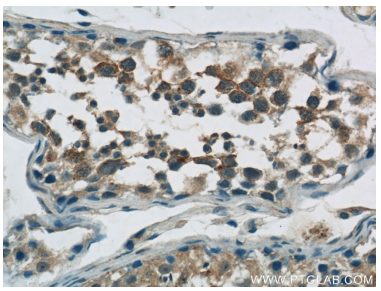
Selected Validation Data



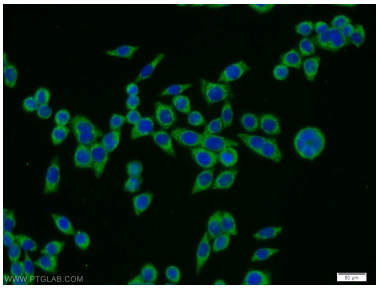
HepG2 cells were subjected to SDS PAGE followed by western blot with 12982-1-AP (TPTE antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 12982-1-AP (TPTE Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 12982-1-AP (TPTE Antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of BxPC-3 cells using 12982-1-AP (TPTE antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).