For Research Use Only

TMX4 Polyclonal antibody

Catalog Number:21348-1-AP 2 Publications

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Basic Information

Catalog Number:
21348-1-AP

Size:
150ul , Concentration: 750 ug/ml by Nanodrop and 560 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG15696

GenBank Accession Number:
BC033787

GeneID (NCBI):
56255

UNIPROT ID:
Q9H1E5

Full Name:
thioredoxin-related transmembrane protein 4

Calculated MW:
349 aa, 39 kDa

Observed MW:
40-45 kDa

Purification Method:
Antigen affinity purification

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

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human

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 : mouse brain tissue, A375 cells, human heart tissue, L02 cells

IHC : human brain tissue, human testis tissue

IF/ICC : HepG2 cells,

Background Information

TMX4(Thioredoxin-related transmembrane protein 4) is also named as KIAA1162, TXNDC13. It is a type I transmembrane protein, with a Trx-like domain facing the ER lumen and may be to enable protein folding in cooperation with these proteins consisting of folding complex in the ER. It could work as a reductase in the environment of the ER(PMID: 20056998). The full length protein has a 23 amino acid signal peptide. This antibody is specific to TMX4.

Notable Publications

Author	Pubmed ID	Journal	Application
Marika K Kucińska	37311770	Nat Commun	WB,IF
Wang Gaigai G	24191733	J Proteome Res	WB

Storage

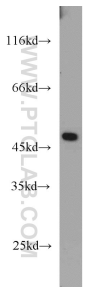
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

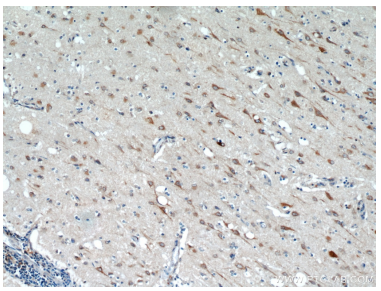
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

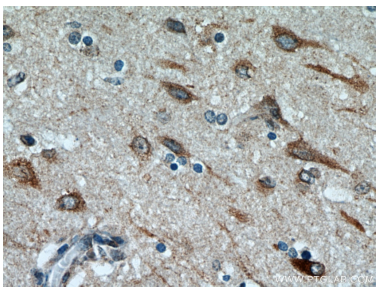
Selected Validation Data



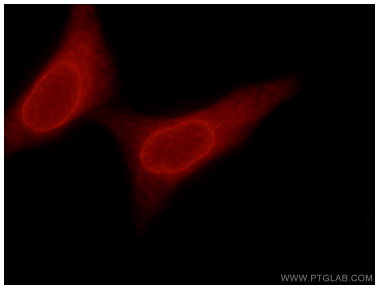
mouse brain tissue were subjected to SDS PAGE followed by western blot with 21348-1-AP (TMX4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain using 21348-1-AP (TMX4 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain using 21348-1-AP (TMX4 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 21348-1-AP (TMX4 antibody) at dilution of 1:50 and and Rhodamine-labeled goat anti-rabbit IgG (red).