

For Research Use Only

TMX4 Polyclonal antibody

Catalog Number: 21348-1-AP **2 Publications**



Basic Information

Catalog Number: 21348-1-AP	GenBank Accession Number: BC033787	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 750 µg/ml by Nanodrop and 560 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 56255	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF 1:20-1:200
Source: Rabbit	Full Name: thioredoxin-related transmembrane protein 4	
Isotype: IgG	Calculated MW: 349 aa, 39 kDa	
Immunogen Catalog Number: AG15696	Observed MW: 40-45 kDa	

Applications

Tested Applications: FC, IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, WB	WB: mouse brain tissue, A375 cells, human heart tissue, L02 cells
Species Specificity: human, mouse, rat	IHC: human brain tissue, human testis tissue
Cited Species: human	IF: HepG2 cells,

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

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

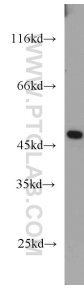
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

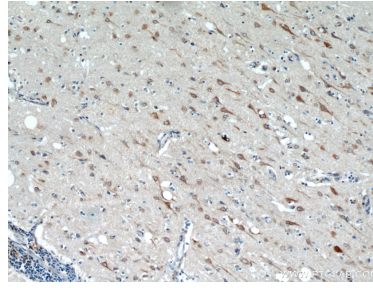
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

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

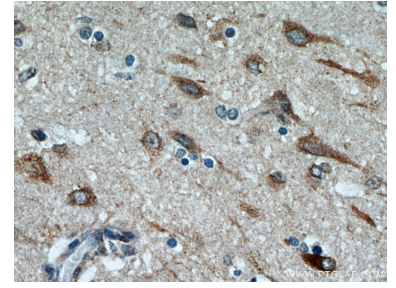
Selected Validation Data



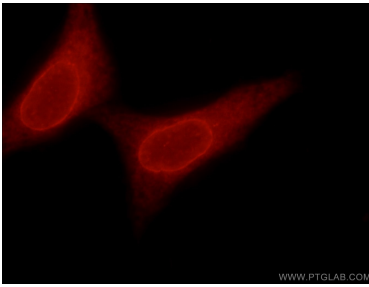
mouse brain tissue were subjected to SDS PAGE followed by western blot with 21348-1-AP (TMX4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



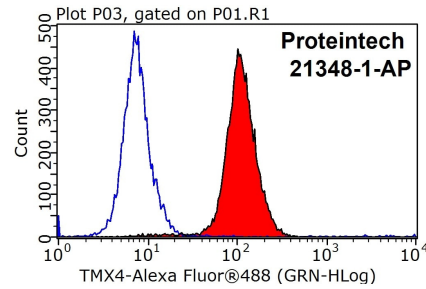
Immunohistochemical analysis of paraffin-embedded human brain using 21348-1-AP (TMX4 antibody) at dilution of 1:50 (under 10x lens).



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 Rhodamine-labeled goat anti-rabbit IgG (red).



1×10^6 HepG2 cells were stained with .2ug TMX4 antibody (21348-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.