

For Research Use Only

TMX1 Polyclonal antibody

Catalog Number: 27489-1-AP **6 Publications**



Basic Information

Catalog Number: 27489-1-AP	GenBank Accession Number: BC036460	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 1400 ug/ml by Nanodrop and 767 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 81542	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:200-1:800
Source: Rabbit	UNIPROT ID: Q9H3N1	
Isotype: IgG	Full Name: thioredoxin-related transmembrane protein 1	
Immunogen Catalog Number: AG26595	Calculated MW: 32 kDa	
	Observed MW: 31 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls: WB : HEK-293T cells, mouse brain tissue, HeLa cells, Jurkat cells IHC : human kidney tissue,
Cited Applications: WB, IHC, IF	
Species Specificity: human, mouse, rat	
Cited Species: 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	

Background Information

TMX1, one of the few transmembrane members of the family, is the first vascular thiol isomerase with antithrombotic function. It forms functional complexes with the ER lectin calnexin and preferentially intervenes during maturation of cysteine-containing, membrane-associated proteins while ignoring the same cysteine-containing ectodomains if not anchored at the ER membrane. As such, TMX1 is the first example of a topology-specific client protein redox catalyst in living cells (PMID: 30655304). Covalent modification with AMS increases the molecular mass of originally oxidized species by ~0.5 kDa per thiol group, which allows enhanced separation from the reduced form in electrophoresis (PMID: 29123984). TMX1 has 2 bands produced by redox with the MW of 30-32 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Xie Ge	35803125	Redox Biol	WB
Hongyan Hui	39939413	Sci Rep	WB, IHC, IF
Olaya Yassin	39621446	Biochem J	WB

Storage

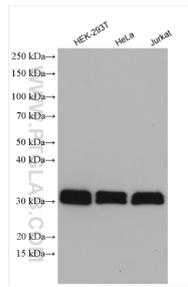
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

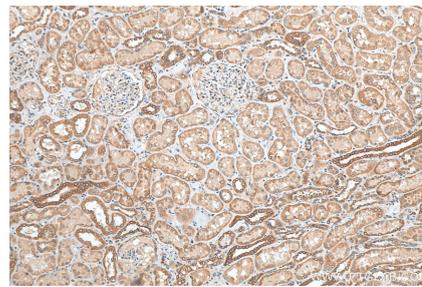
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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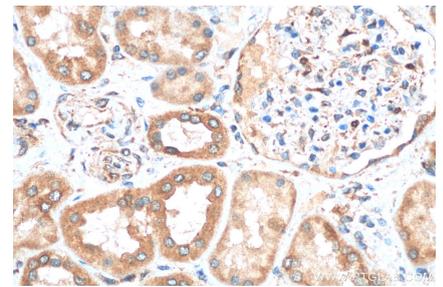
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27489-1-AP (TMX1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27489-1-AP (TMX1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27489-1-AP (TMX1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).