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	r: Purification Method: Antigen affinity purification	
	Concentration: 1400 ug/ml	GenelD (NCBI): 81542	Recommended Dilutions: WB 1:2000-1:10000	
	Source:	UNIPROT ID:	IHC 1:200-1:800	
	Rabbit Isotype:	Q9H3N1 Full Name:		
	IgG Immunogen Catalog Number: AG26595	thioredoxin-related transmembrane protein 1		
		Calculated MW: 32 kDa		
		Observed MW: 31 kDa		
Applications	Tested Applications: WB, IHC, ELISA	Positive Controls:		
	Cited Applications: WB : HEK-293T cells, mouse		HEK-293T cells, mouse brain tissue, HeLa cells, at cells	
	WB, IHC, IF	IHC : human kidney tissue,		
	Species Specificity: human, mouse, rat			
	Cited Species:			
	human, mouse			
	Note-IHC: suggested antigen retrieval with <u>TE buffer pH 9.0;</u> (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0			
	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 produces by redox with the MW of 30-32 kDa.			
Background Information	antithrombotic function. It forms during maturation of cysteine-con containing ectodomains if not an specific client protein redox catal molecular mass of originally oxid the reduced form in electrophores	unctional complexes with the Ef naining, membrane-associated p chored at the ER membrane. As so yst in living cells(PMID: 3065530 lized species by ~0.5 kDa per thio	R lectin calnexin and preferentially intervenes proteins while ignoring the same cysteine- uch, TMX1 is the first example of a topology- 04). Covalent modification with AMS increases to ol group, which allows enhanced separation from	
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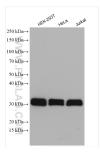
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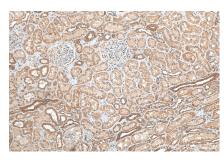
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Selected Validation Data





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 paraffinembedded 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 paraffinembedded 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).