For Research Use Only

ERO1L Polyclonal antibody

Catalog Number:18313-1-AP

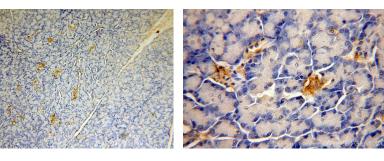


Basic Information	Catalog Number: 18313-1-AP	GenBank Accession Number: BC008674	Purification Method: Antigen affinity purification	
	Size: 270 µg/ml	GenelD (NCBI): 30001	Recommended Dilutions: IHC 1:20-1:200	
	Source: Rabbit	UNIPROT ID: Q96HE7		
	Isotype: IgG	Full Name: ERO 1-like (S. cerevisiae)		
		Calculated MW: 54 kDa		
Applications	Tested Applications: IHC,ELISA	Positive	Positive Controls: IHC : human pancreas tissue,	
	Species Specificity: human, mouse	IHC : hum		
	Note-IHC: suggested an TE buffer pH 9.0; (*) Alt retrieval may be perfor buffer pH 6.0	ernatively, antigen		
Background Information	ERO 1L, also named as ERO 1-alpha, is an essential oxidoreductase that oxidizes proteins in the endoplasmic reticulum to produce disulfide bonds. It acts by oxidizing directly P4HB/PDI isomerase through a direct disulfide exchange. It does not act as a direct oxidant of folding substrate, but relies on P4HB/PDI to transfer oxidizing equivalent. Associates with ERP44 but not with GRP54, demonstrating that it does not oxidize all PDI related proteins and can discriminate between PDI and related proteins. Its reoxidation probably involves electron transfer to molecular oxygen via FAD. Glutathione may be required to regulate its activity in the endoplasmic reticulum. It may be responsible for a significant proportion of reactive oxygen species (ROS) in the cell, thereby being a source of oxidative stress. It is required for the folding of immunoglobulin proteins. Responsible for the release of the unfolded cholera toxin from reduced P4HB/PDI in case of infection by V.cholerae, thereby playing a role in retrotranslocation of the toxin. This antibody has no cross reaction to ERO 1L.			
Storage	Storage: Store at -20°C. Stable for one Storage Buffer: PBS with 0.02% sodium azide Aliquoting is unnecessary for	and 50% glycerol pH 7.3.		

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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Selected Validation Data



Immunohistochemical analysis of paraffinembedded human pancreas using 18313-1-AP (ERO 1L antibody) at dilution of 1:50 (under 10x lens). Immunohistochemical analysis of paraffinembedded human pancreas using 18313-1-AP (ERO 1L antibody) at dilution of 1:50 (under 40x lens).