For Research Use Only

ERO1L Monoclonal antibody

Catalog Number:67416-1-lg Featured Product



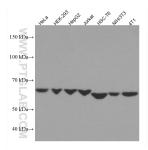


Basic Information	Catalog Number: 67416-1-lg	GenBank Accession Number: BC008674		Purification Method: Protein A purification	
	Size: 1800 µg/ml			CloneNo.: 1G12E11 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:200-1:800	
	Source:UNIPROT ID:MouseQ96HE7Isotype:Full Name:IgG2bERO1-like (S. cerevisiae)				
			cerevisiae)		
	Immunogen Catalog Number:Calculated MW:AG29910468 aa, 54 kDaObserved MW:54 kDa				
			V:		
Applications	and the second se		Positive C	ontrols:	
	IF/ICC,IF-P, IHC, WB,ELISA Cited Applications:			WB : HeLa cells, HepG2 cells, HEK-293 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells	
	WB Species Specificity:			IHC : human pancreas cancer tissue, human stomacl cancer tissue	
	Human, Mouse, Rat IF Cited Species: mouse			3 cells, human stomach cancer tissue	
	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	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. ERO 1L has a calculated molecular weight of 54 kDa and can be detected as 60kDa.				
Notable Publications	Author	Pubmed ID	Journal	Application	
	Qian Guo	37153733	Theranostics	WB	
Storage	Storage: Store at -20°C.				

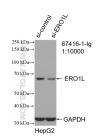
For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

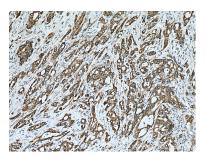
Selected Validation Data



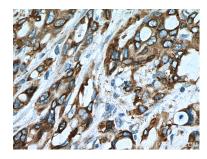
Various lysates were subjected to SDS PAGE followed by western blot with 67416-1-lg (ERO1L antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



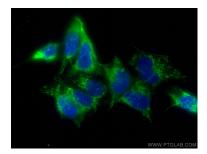
WB result of ERO 1L antibody (67416-1-1g; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ERO 1L transfected HepG2 cells.



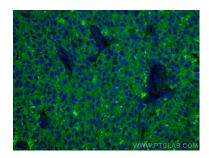
Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 67416-1-1g (ER01L antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 67416-1-1g (ERO 1L antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using ERO1L antibody (67416-1-Ig, Clone: 1G12E11) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed human stomach cancer tissue using ERO1L antibody (67416-1-Ig, Clone: 1G12E11) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).