For Research Use Only

ERO1L Monoclonal antibody

Catalog Number:67416-1-lg Featured Product 3 Publications

in USA), or 1(312) 455-8498 (outside USA)

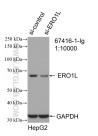


	67416-1-lg	00000/4			
	Size:	BC008674 GeneID (NCBI):		Protein A purification CloneNo.:	
	150ul , Concentration: 1000 ug/ml by			1G12E11 Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000 IF-P 1:200-1:800 IF/ICC 1:200-1:800	
	Nanodrop;				
	Source:				
	Mouse				
	lsotype:				
	IgG2b Immunogen Catalog Number: AG29910				
	Applications				Tested Applications:
Cited Applications: cells			HeLa cells, HepG2 cells, HEK-293 cells, Jurkat HSC-T6 cells, NIH/3T3 cells, 4T1 cells		
WB Species Specificity:			IHC : human p cancer tissue	ancreas cancer tissue, human stomach	
Human, Mouse, Rat			IF-P : human s	tomach cancer tissue,	
Cited Species: mouse			IF/ICC : HEK-2	293 cells, human stomach cancer tissue	
	TE buffer pH 9.0; (*) Alternativ retrieval may be performed w 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 Pub	med ID Jour	nal	Application	
	Siwen Xie 396	43796 Biol ⁻	Trace Elem Res	WB	
	Guangjie Liu 395	66653 Nitri	c Oxide	WB	
	Qian Guo 371	53733 Thera	anostics	WB	
torage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	% glycerol pH 7.3.			
	Aliquoting is unnecessary for -20°C s	rorage			

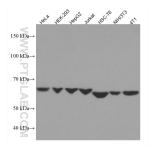
W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

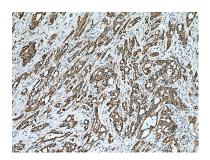
Selected Validation Data



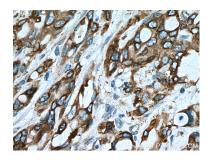
WB result of ERO 1L antibody (67416-1-1g; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ERO 1L transfected HepG2 cells.



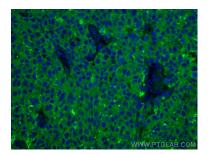
Various lysates were subjected to SDS PAGE followed by western blot with 67416-1-lg (ERO 1L antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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 human stomach cancer tissue using ERO1L antibody (67416-1-Ig, Clone: 1G12E11) at dilution of 1:400 and CoraLite@488-Conjugated Goat Anti-Mouse IgG(H+L).



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