For Research Use Only

ERO1L Monoclonal antibody, PBS Only (Capture)

Catalog Number:67416-1-PBS

Featured Product

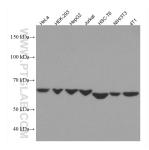
Basic Information	Catalog Number: 67416-1-PBS	GenBank Accession Number: BC008674	Purification Method: Protein A purification
	Size: 1mg/ml	GeneID (NCBI): 30001	CloneNo.: 1G12E11
	Source: Mouse	UNIPROT ID: Q96HE7	
	lsotype: IgG2b	Full Name: ERO 1-like (S. cerevisiae)	
	Immunogen Catalog Number: AG29910	Calculated MW: 468 aa, 54 kDa	
		Observed MW: 54 kDa	
Applications	Tested Applications: WB, IHC, IF/ICC, IF-P, Cytometric bead array, Indirect ELISA		
	Species Specificity: human, mouse, rat		
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.		
Storage	Storage: Store at -80°C. The product is shipped with ice pa Storage Buffer: PBS Only	cks. Upon receipt, store it immediatel	y at -80℃

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

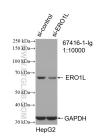
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.



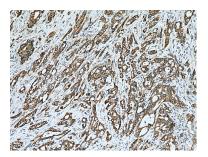
Selected Validation Data



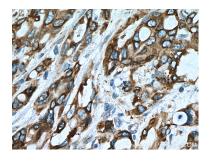
Various lysates were subjected to SDS PAGE followed by western blot with 67416-1-Ig (ERO1L antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67416-1-PBS in a different storage buffer formulation.



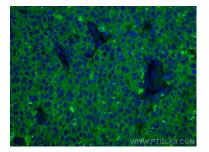
WB result of ERO 1L antibody (67416-1-lg; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ERO 1L transfected HepC2 cells. This data was developed using the same antibody clone with 67416-1-PBS in a different storage buffer formulation.



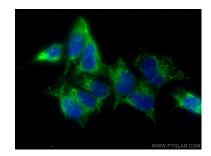
Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 67416-1-1g (ERO 1L antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67416-1-PBS in a different storage buffer formulation.



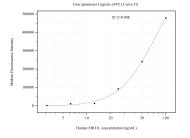
Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 67416-1-1g (ERO 1L antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67416-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67416-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using ERO 1L antibody (67416-1-1g, Clone: 1G12E11) at dilution of 1:400 and Coralite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67416-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP51017-4, ERO 1L Monoclonal Matched Antibody Pair, PBS Only. Capture antibody: 67416-1-PBS. Detection antibody: 67416-5-PBS. Standard:Ag29910. Range: 3.125-100 ng/mL