

ERO1L Polyclonal Antibody

Catalog NumberPA5-17324

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Dilution *	
Type	Antibody	Western Blot (WB)	1:1,000
Immunogen	Synthetic peptide corresponding to residues surrounding Leu218 of human Ero1-La	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Purification	Antigen affinity chromatography		
Storage buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/mL BSA, 50% glycerol		
Contains	no preservative		
Storage Conditions	-20°C		

Product specific information

It is not recommended to aliquot this antibody.

Background/Target Information

ERO1L (endoplasmic oxidoreductin-1-like protein) is localized in ER membrane as peripheral membrane protein on the luminal side. Its association with ERP44 is essential for its retention in the ER and is unique in coupling oxygen reduction to de novo disulfides formation. The ERO1L enzyme is broadly distributed at low levels in several tissues with highest levels in the upper digestive tract and is stimulated by hypoxia via HIF-signaling. ERO1L generally exists as monomer, but has the ability to function as monomer or homodimer and interacts with PDILT. After translation, ERO1L gets n-glycosylated and the disulfide bonds constitute the redox-active center whereby the Cys-94/Cys-99 disulfide bond accepts an electron from P4HB followed by funneling the same to the active site disulfide Cys-394/Cys-397. ERO1L acts by oxidizing directly to P4HB/PDI isomerase through direct disulfide exchange and associates with ERP44. ERO1L is implicated in immunoglobulin folding, oxidative stress, release of unfolded cholera toxin from reduced P4HB/PDI upon *Vibrio cholerae* infection, and plays a key role in ER stress-induced CHOP-dependent apoptosis through inositol 1,4,5-trisphosphate receptor IP3R1 activation.

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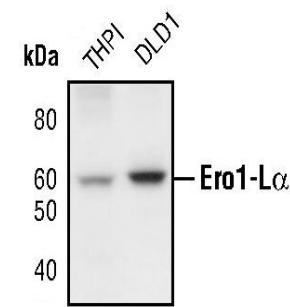
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ERO1L Antibody (PA5-17324) in WB

Western blot analysis of Ero1-L-alpha in extracts from THP-I and DLD-1 cell lines using Ero1-L-alpha polyclonal antibody (Product # PA5-17324).



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