

**ERO1-like (aa105-118) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3527a****Specification**

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**ERO1-like (aa105-118) Antibody (internal region) - Product Information**

Application	WB, IHC, Pep-ELISA
Primary Accession	<a href="#">Q96HE7</a>
Other Accession	<a href="#">NP_055399.1</a> , <a href="#">30001</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	54393

**ERO1-like (aa105-118) Antibody (internal region) - Additional Information****Gene ID** 30001**Other Names**

ERO1-like protein alpha, ERO1-L, ERO1-L-alpha, 1.8.4.-, Endoplasmic oxidoreductin-1-like protein, Oxidoreductin-1-L-alpha, ERO1L

**Dilution**WB~~1:1000  
IHC~~1:100~500  
Pep-ELISA~~N/A**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ERO1-like (aa105-118) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**ERO1-like (aa105-118) Antibody (internal region) - Protein Information****Name** ERO1A ([HGNC:13280](#))**Synonyms** ERO1L

### Function

Oxidoreductase involved in disulfide bond formation in the endoplasmic reticulum. Efficiently reoxidizes P4HB/PDI, the enzyme catalyzing protein disulfide formation, in order to allow P4HB to sustain additional rounds of disulfide formation. Following P4HB reoxidation, passes its electrons to molecular oxygen via FAD, leading to the production of reactive oxygen species (ROS) in the cell. Required for the proper folding of immunoglobulins (PubMed:<a href="http://www.uniprot.org/citations/29858230" target="\_blank">29858230</a>). Plays an important role in ER stress-induced, CHOP-dependent apoptosis by activating the inositol 1,4,5-trisphosphate receptor IP3R1. Involved in 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.

### Cellular Location

Endoplasmic reticulum membrane; Peripheral membrane protein; Luminal side. Golgi apparatus lumen. Secreted. Cell projection, dendrite {ECO:0000250|UniProtKB:Q8R4A1}. Note=The association with ERP44 is essential for its retention in the endoplasmic reticulum (PubMed:29858230). In neurons, it localizes to dendrites (By similarity). {ECO:0000250|UniProtKB:Q8R4A1, ECO:0000269|PubMed:29858230}

### Tissue Location

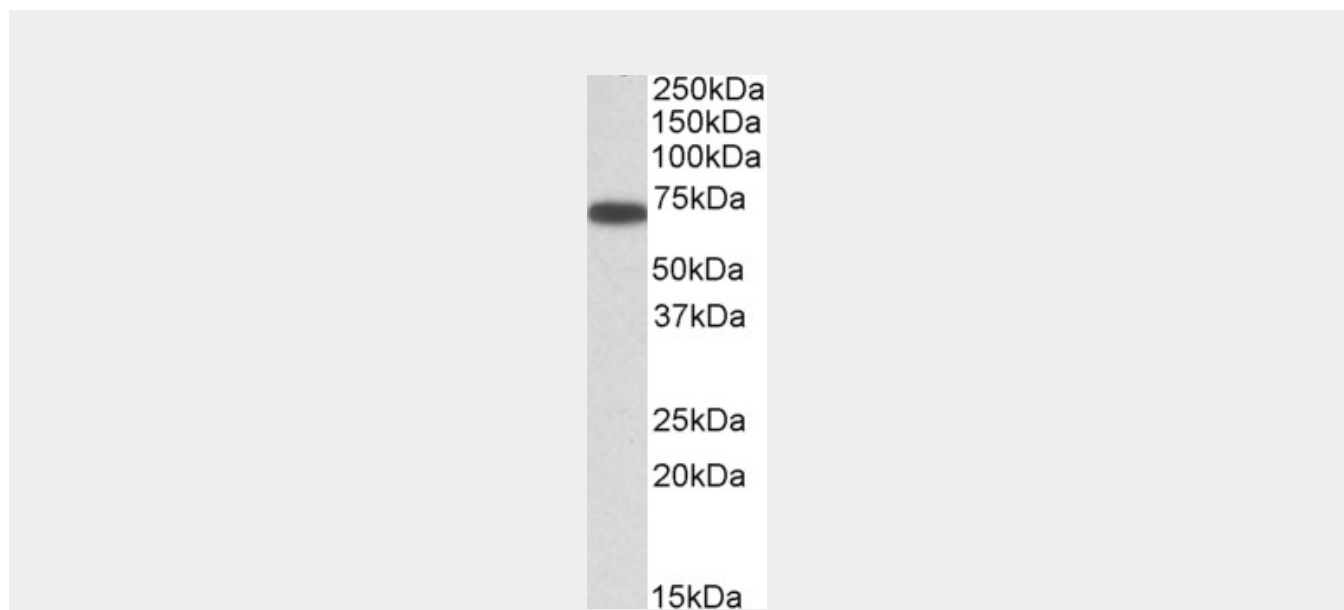
Widely expressed at low level. Expressed at high level in upper digestive tract. Highly expressed in esophagus. Weakly expressed in stomach and duodenum.

### ERO1-like (aa105-118) Antibody (internal region) - Protocols

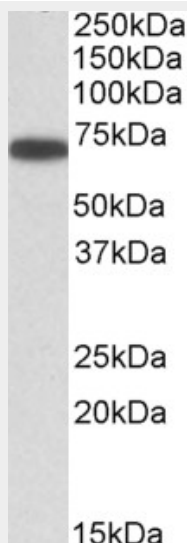
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

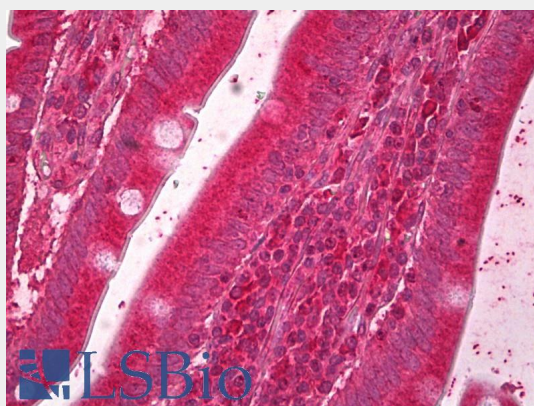
### ERO1-like (aa105-118) Antibody (internal region) - Images



AF3527a (0.3 µg/ml) staining of A431 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



EB10882 (0.3µg/ml) staining of A431 lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB10882 (5µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

#### **ERO1-like (aa105-118) Antibody (internal region) - References**

Crystal structures of human Ero1 $\gamma$  reveal the mechanisms of regulated and targeted oxidation of PDI. Inaba K, Masui S, Iida H, Vavassori S, Sitia R, Suzuki M. EMBO J. 2010 Oct 6;29(19):3330-43. PMID: 20834232