

**ERP44 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9842c****Specification**

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**ERP44 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q9BS26](#)**ERP44 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 23071**Other Names**

Endoplasmic reticulum resident protein 44, ER protein 44, ERp44, Thioredoxin domain-containing protein 4, ERP44, KIAA0573, TXNDC4

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**ERP44 Antibody (Center) Blocking Peptide - Protein Information****Name** ERP44**Synonyms** KIAA0573, TXNDC4**Function**

Mediates thiol-dependent retention in the early secretory pathway, forming mixed disulfides with substrate proteins through its conserved CRFS motif (PubMed:<a href="http://www.uniprot.org/citations/11847130" target="\_blank">11847130</a>, PubMed:<a href="http://www.uniprot.org/citations/14517240" target="\_blank">14517240</a>). Inhibits the calcium channel activity of ITPR1 (PubMed:<a href="http://www.uniprot.org/citations/15652484" target="\_blank">15652484</a>). May have a role in the control of oxidative protein folding in the endoplasmic reticulum (PubMed:<a href="http://www.uniprot.org/citations/11847130" target="\_blank">11847130</a>, PubMed:<a href="http://www.uniprot.org/citations/29858230" target="\_blank">29858230</a>, PubMed:<a href="http://www.uniprot.org/citations/14517240" target="\_blank">14517240</a>). Required to retain ERO1A and ERO1B in the endoplasmic reticulum (PubMed:<a href="http://www.uniprot.org/citations/11847130" target="\_blank">11847130</a>, PubMed:<a href="http://www.uniprot.org/citations/29858230" target="\_blank">29858230</a>).

**Cellular Location**

Endoplasmic reticulum lumen

### **ERP44 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **ERP44 Antibody (Center) Blocking Peptide - Images**

### **ERP44 Antibody (Center) Blocking Peptide - References**

Fraldi, A., et al. Hum. Mol. Genet. 17(17):2610-2621(2008)Wang, L., et al. EMBO Rep. 9(7):642-647(2008)Mariappan, M., et al. J. Biol. Chem. 283(10):6375-6383(2008)Anelli, T., et al. EMBO J. 26(19):4177-4188(2007)Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007)