

ERP44 Antibody (clone 3C7)
Mouse Monoclonal Antibody
Catalog # ALS14427**Specification**

ERP44 Antibody (clone 3C7) - Product Information

Application	WB
Primary Accession	Q9BS26
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	47kDa KDa

ERP44 Antibody (clone 3C7) - Additional Information**Gene ID** 23071**Other Names**

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

Target/Specificity

Human TXNDC4

Reconstitution & Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

ERP44 Antibody (clone 3C7) is for research use only and not for use in diagnostic or therapeutic procedures.

ERP44 Antibody (clone 3C7) - 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: [11847130](http://www.uniprot.org/citations/11847130), PubMed: [14517240](http://www.uniprot.org/citations/14517240)). Inhibits the calcium channel activity of ITPR1 (PubMed: [15652484](http://www.uniprot.org/citations/15652484)). May have a role in the control of oxidative protein folding in the endoplasmic reticulum (PubMed: [11847130](http://www.uniprot.org/citations/11847130), PubMed: [29858230](http://www.uniprot.org/citations/29858230), PubMed: [14517240](http://www.uniprot.org/citations/14517240)). Required to retain ERO1A and ERO1B in the endoplasmic

reticulum (PubMed:11847130, PubMed:29858230).

Cellular Location

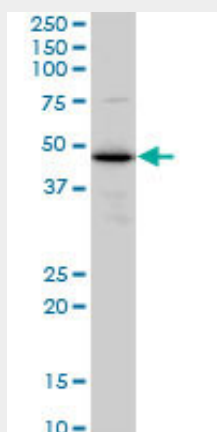
Endoplasmic reticulum lumen

ERP44 Antibody (clone 3C7) - Protocols

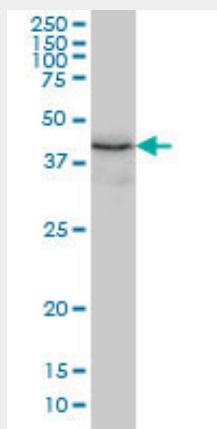
Provided below are standard protocols that you may find useful for product applications.

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

ERP44 Antibody (clone 3C7) - Images



Antibody ALS14427, Western blot of TXNDC4 expression in A-431.



Antibody ALS14427 Western blot of TXNDC4 expression in K-562.

ERP44 Antibody (clone 3C7) - Background

Mediates thiol-dependent retention in the early secretory pathway, forming mixed disulfides with substrate proteins through its conserved CRFS motif. Inhibits the calcium channel activity of ITPR1. May have a role in the control of oxidative protein folding in the endoplasmic reticulum. Required to retain ERO1L and ERO1LB in the endoplasmic reticulum.

ERP44 Antibody (clone 3C7) - References

Anelli T.,et al.EMBO J. 21:835-844(2002).
Nagase T.,et al.DNA Res. 5:31-39(1998).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Humphray S.J.,et al.Nature 429:369-374(2004).