

ERP44 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10958**Specification**

ERP44 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	Q9BS26
Reactivity	Human, Mouse, Rabbit, Monkey, Pig, Chicken, Horse, Xenopus, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47kDa KDa

ERP44 Antibody (Internal) - 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 ERP44 / TXNDC4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

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

ERP44 Antibody (Internal) - 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))

target="_blank">11847130, PubMed:29858230, PubMed:14517240). Required to retain ERO1A and ERO1B in the endoplasmic reticulum (PubMed:11847130, PubMed:29858230).

Cellular Location

Endoplasmic reticulum lumen

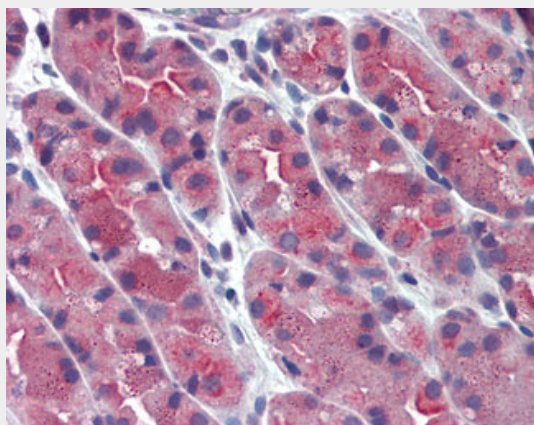
Volume

50 μ l

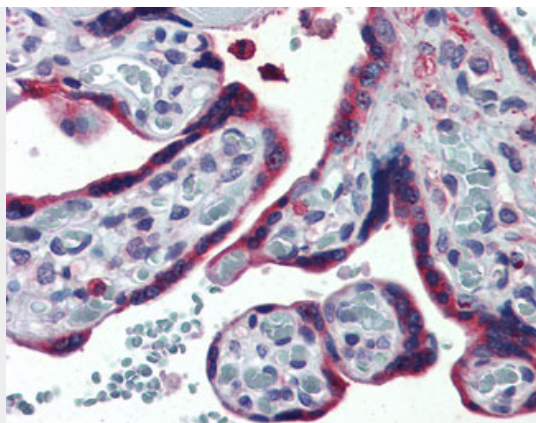
ERP44 Antibody (Internal) - Protocols

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 (Internal) - Images

Anti-ERP44 / TXNDC4 antibody ALS10958 IHC of human stomach.



Anti-ERP44 / TXNDC4 antibody ALS10958 IHC of human placenta.

ERP44 Antibody (Internal) - 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 (Internal) - 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).