

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

ERP44 Antibody (Internal) - Product Information

Application	IHC-P
Primary Accession	Q9BS26
Reactivity	Human, Mouse, Rabbit, Monkey, Pig, Chicken, Horse, Xenopus, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47kDa KDa
Dilution	IHC-P~~N/A

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, PubMed:14517240). Inhibits the calcium channel activity of ITPR1 (PubMed:15652484). May have a role in the control of oxidative protein folding in the

endoplasmic reticulum (PubMed:11847130, PubMed:14517240, PubMed:29858230). Required to retain ERO1A and ERO1B in the endoplasmic reticulum (PubMed:11847130, PubMed:29858230).

Cellular Location

Endoplasmic reticulum lumen

Volume

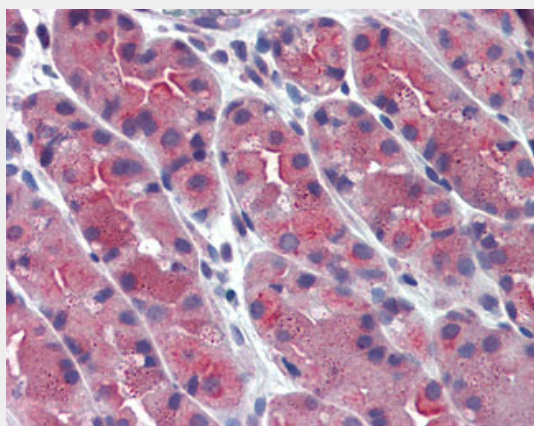
50 μ l

ERP44 Antibody (Internal) - Protocols

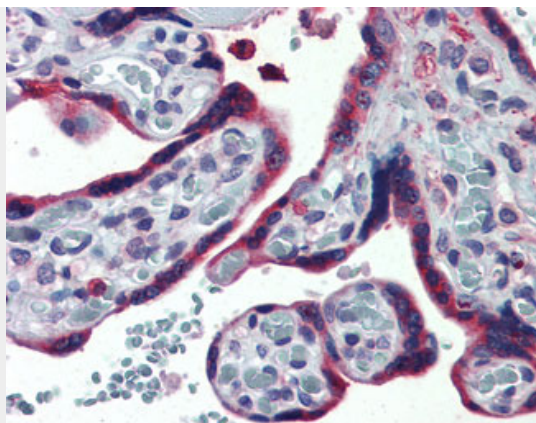
Provided below are standard protocols that you may find useful for product applications.

- [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).