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ERP44 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10959

Specification

ERP44 Antibody (Internal) - Product Information

Application	**IHC**
Primary Accession	Q9BS26
Reactivity	**Human, Monkey**
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
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

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:29858230, PubMed:<a href="http://www.uniprot.org/citations/14517240"

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

Cellular Location
Endoplasmic reticulum lumen

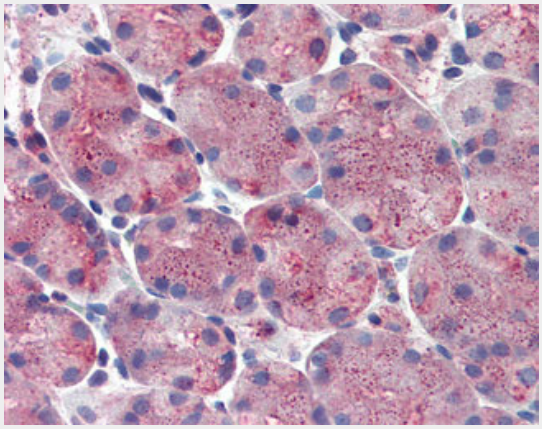
Volume
50 µl

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 Cytomety
- Cell Culture

ERP44 Antibody (Internal) - Images



Anti-ERP44 / TXNDC4 antibody ALS10959 IHC of human stomach.

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).