



Rabbit Anti-TXNDC4 antibody

SL10507R

Product Name:	TXNDC4
Chinese Name:	内质网蛋白44抗体
Alias:	Endoplasmic reticulum resident protein 44; Endoplasmic reticulum resident protein 44 kDa; Endoplasmic reticulum resident protein ERp44; ER protein 44; ERP44; KIAA0573; PDIA10; Protein disulfide isomerase family A, member 10; Thioredoxin domain containing 4 (endoplasmic reticulum); Thioredoxin domain containing protein 4; UNQ532/PRO1075; ERP44; ERP44 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	44kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TXNDC4:51-150/406
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

Function:

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.

Subunit:

Forms mixed disulfides with both ERO1L and ERO1LB and cargo folding intermediates. Directly interacts with ITPR1 in a pH-, redox state- and calcium-dependent manner, but not with ITPR2 or ITPR3. The strength of this interaction inversely correlates with calcium concentration.

Subcellular Location:

Endoplasmic reticulum lumen.

Similarity:

Contains 1 thioredoxin domain.

SWISS:

Q9BS26

Gene ID:

23071

Database links:

[Entrez Gene: 23071](#) Human

[Entrez Gene: 506157](#) Cow

[Entrez Gene: 474781](#) Dog

[Entrez Gene: 100414815](#) Marmoset (common)

[Entrez Gene: 76299](#) Mouse

[Entrez Gene: 100192437](#) Pig

[Entrez Gene: 298066](#) Rat

[Omim: 609170](#) Human

[SwissProt: Q3T0L2](#) Cow

[SwissProt: Q9BS26](#) Human

[SwissProt: Q9D1Q6](#) Mouse

[Unigene: 154023](#) Human

[Unigene: 317701](#) Mouse

[Unigene: 2459](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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