

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human ERp57/PDIA3 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant ERp57/PDIA3 Arg107-Lys366 Accession # P30101
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

ERp57 (Endoplasmic reticulum resident protein 57; also Protein disulfide-isomerase A3/PDIA3) is a 57-60 kDa member of the protein disulfide isomerase family of proteins. Knockdown of ERp57 or antibody-targeted inhibition of the secreted form significantly impaired the secretion and accumulation of extracellular matrix. ERp57 is highly similar to other PDI family members in amino acid sequence and structural/functional domain organization. This protein plays an important role in endoplasmic reticulum quality control of newly synthesized glycoproteins, is critical in major histocompatibility complex class I assembly and regulates gene expression. ERp57 has been implicated in human pathologies including cancer and Alzheimer's disease. Within aa 107 - 366, human ERp57 shares 92% aa sequence identity with mouse ERp57.

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