

Human ERp57/PDIA3 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF8219

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human ERp57/PDIA3 in direct ELISAs and Western blots.		
Source	Polyclonal Sheep IgG		
Purification	Antigen Affinity-purified		
Immunogen	E. coli-derived recombinant ERp57/PDIA3 Arg107-Lys366 Accession # P30101		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

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.

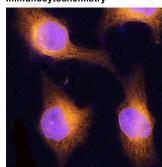
	Recommended Concentration	Sample
Western Blot	0.2 μg/mL	See Below
Immunocytochemistry	5-15 μg/mL	See Below
Immunohistochemistry	5-15 μg/mL	See Below

DATA

| Western Blot | Sec | S

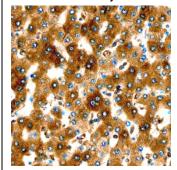
Detection of Human and Mouse ERp57/PDIA3 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, HEK293 human embryonic kidney cell line, and Hepa 1-6 mouse hepatoma cell line. PVDF membrane was probed with 0.2 µg/mL of Sheep Anti-Human ERp57/PDIA3 Antigen Affinitypurified Polyclonal Antibody (Catalog # AF8219) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for ERp57/PDIA3 at approximately 57 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



ERp57/PDIA3 in HeLa Human Cell Line. ERp57/PDIA3 was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Sheep Anti-Human ERp57/PDIA3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8219) at 15 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NLO10) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry



ERp57/PDIA3 in Human Liver.

ERp57/PDIA3 was detected in immersion fixed paraffin-embedded sections of human liver using Sheep Anti-Human ERp57/PDIA3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8219) at 1 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to the cytoplasm of hepatocytes. View our protocol for Chromogenic IHC Staining of Paraffinembedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

 * Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 $^\circ$ C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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 histocompatability 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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