

## DESCRIPTION

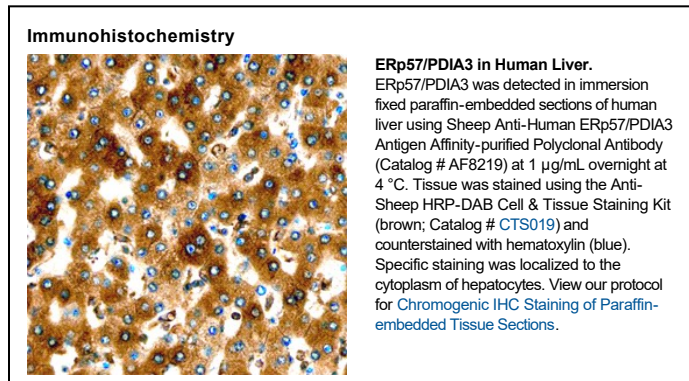
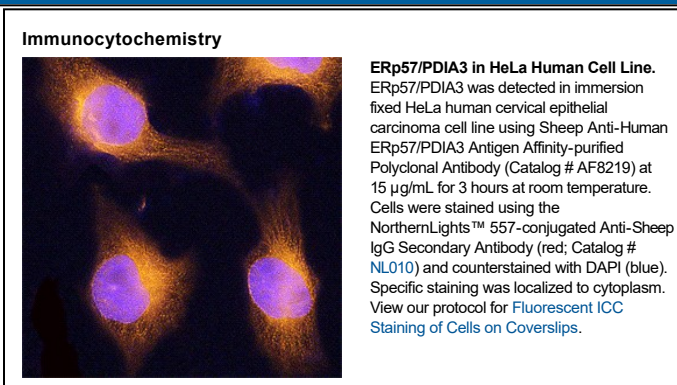
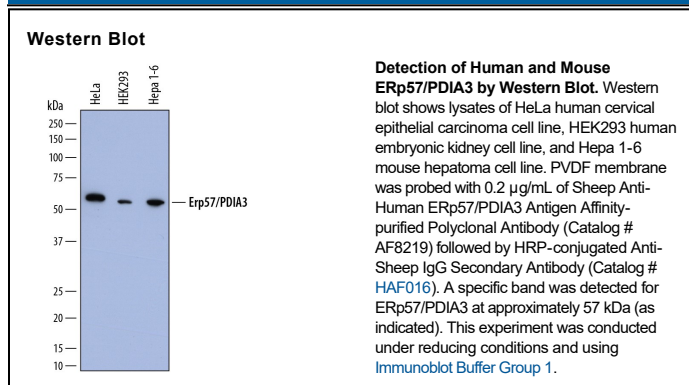
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human ERp57/PDIA3 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant ERp57/PDIA3 Arg107-Lys366 Accession # P30101
<b>Formulation</b>	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.

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

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.