

Product Datasheet

ERp57/PDIA3 Antibody (CL2444) - BSA Free NBP2-36765

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-36765

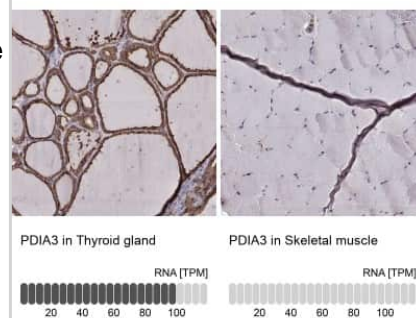
ERp57/PDIA3 Antibody (CL2444) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	CL2444
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Description	Novus Biologicals Mouse ERp57/PDIA3 Antibody (CL2444) - BSA Free (NBP2-36765) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-ERp57/PDIA3 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2923
Gene Symbol	PDIA3
Species	Human
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions
Immunogen	This antibody was developed using a recombinant protein derived from G5EA52, with the exact immunogen sequence remaining proprietary.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 1 ug/ml, Immunohistochemistry 1:20000 - 1:50000, Immunocytochemistry/ Immunofluorescence 2-10 ug/ml, Immunohistochemistry-Paraffin 1:20000 - 1:50000, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

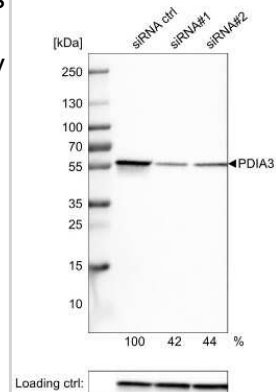


Images

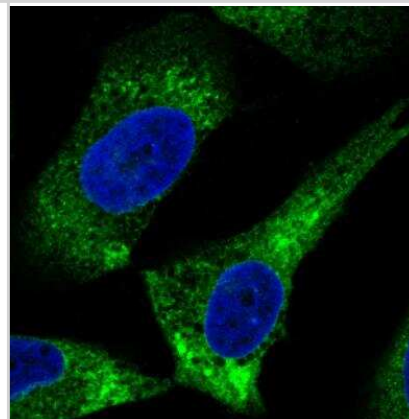
Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining in human thyroid gland and skeletal muscle tissues. Corresponding PDIA3 RNA-seq data are presented for the same tissues.



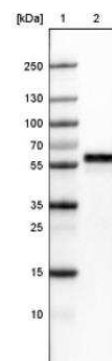
Western Blot: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Analysis in U-251MG cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-PDIA3 antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



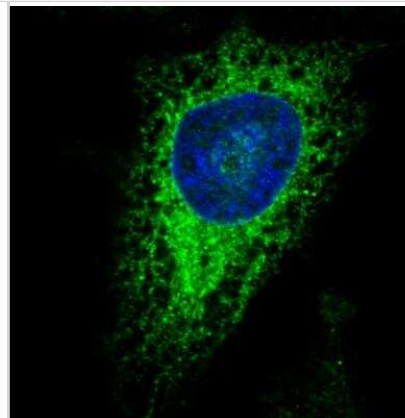
Immunocytochemistry/Immunofluorescence: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining in U251 cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green.



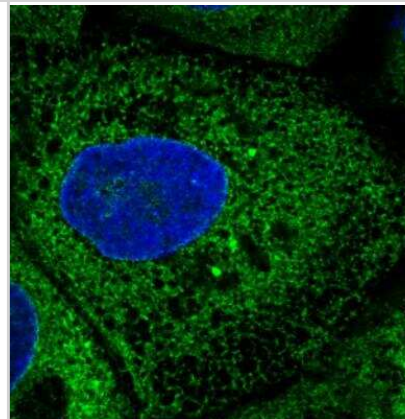
Western Blot: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Lane 1: Marker [kDa]. Lane 2: Human cell line U-251 MG



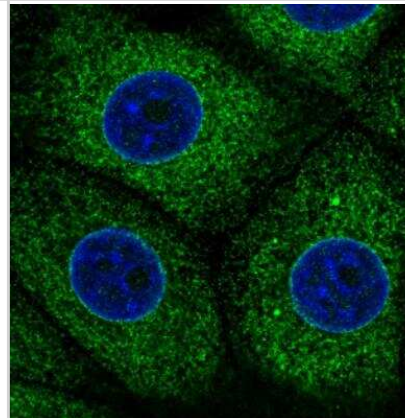
Immunocytochemistry/Immunofluorescence: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining in HeLa cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green.



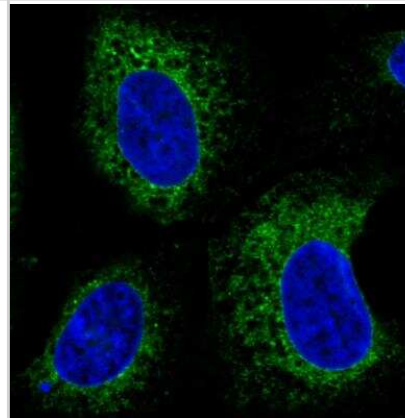
Immunocytochemistry/Immunofluorescence: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining of human cell line A431 showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green.



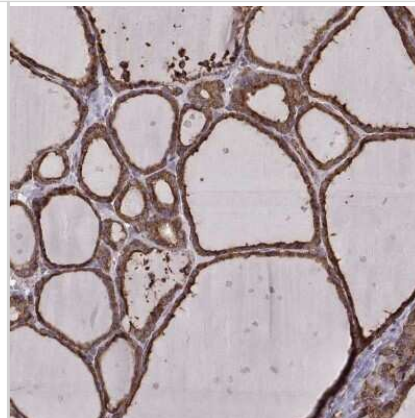
Immunocytochemistry/Immunofluorescence: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining in MCF7 cell line showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green.



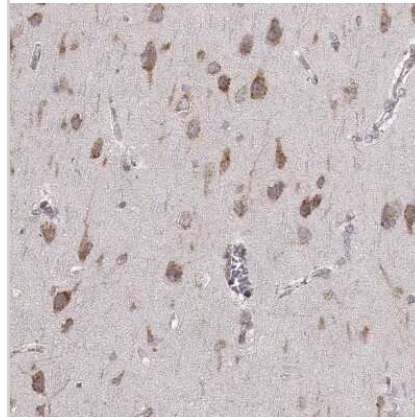
Immunocytochemistry/Immunofluorescence: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining in U2OS cell line with Anti-PDIA3 monoclonal antibody, showing specific staining of endoplasmic reticulum in green. Microtubule-staining and nuclear probes are visualized in red and blue respectively (where available). Antibody staining is shown in green.



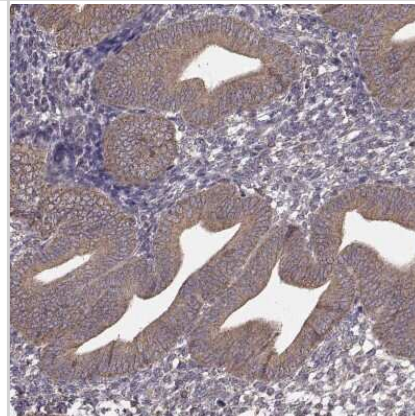
Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining of human thyroid gland shows moderate to strong cytoplasmic positivity in glandular cells.



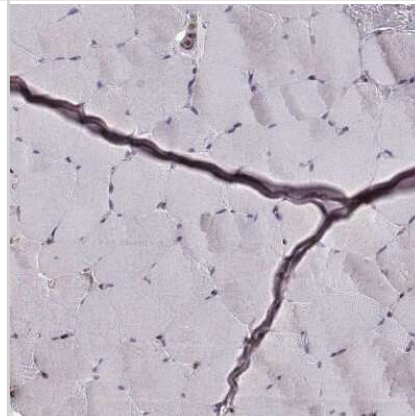
Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining of human cerebral cortex shows moderate cytoplasmic positivity in neurons.



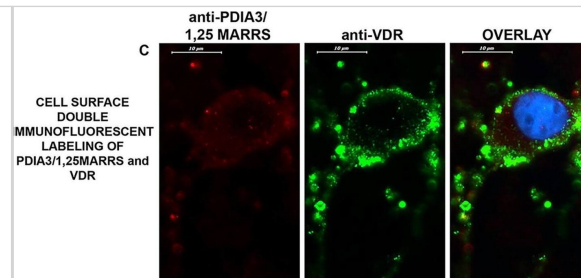
Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining of human endometrium shows moderate cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody (CL2444) [NBP2-36765] - Staining of human skeletal muscle shows no positivity in striated muscle fibers as expected.



The expression of VDR and PDIA3/1,25MARRS in cortical neurons. A-B) Cell surface staining of VDR (green) in live neurons, followed by fixation and immunofluorescence labeling of MAP2 (red) as a neuronal marker, 100x. The micrographs were taken from the same areas with different levels of focus to demonstrate the different localization of VDR on the neuronal plasma membrane. A) VDR protein is localized on the plasma membrane of the soma; B) VDR protein is localized on the plasma membranes of neurites. The 3D image of staining was obtained via confocal microscopy (63x), and the video is presented in S1 Video. C) VDR (green) and PDIA3/1,25MARRS (red) cell surface staining with live neurons via double immunofluorescence labelling, 100x. The localization of PDIA3/1,25MARRS on the neuronal plasma membrane was very limited. D) Double immunofluorescence labelling of VDR and PDIA3/1,25MARRS in fixed and permeabilized neurons, 100x. PDIA3/1,25MARRS was localized in the cytoplasm and in the endoplasmic reticulum (ER). Given its strong reactivity in a certain area in the cytoplasm and its known role as an ER chaperone, the localization was considered to be in the ER. VDR is located in the nucleus, cytoplasm, ER and axon hillock. VDR and PDIA3/1,25MARRS might co-localize in the cytoplasm, especially in the ER. E) VDR (green) cell surface staining with live SH-SY5Y cells via immunofluorescence labelling, 100x. F) Immunofluorescence labelling of VDR in fixed and permeabilized SH-SY5Y cells, 100x. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/29176823>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Dursun E. , Gezen-Ak D. Vitamin D receptor is present on the neuronal plasma membrane and is co-localized with amyloid precursor protein, ADAM10 or Nicastrin. PLoS One 2017-11-28 [PMID: 29176823] (ICC/IF, Human)



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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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