

# Product Datasheet

## ERp57/PDIA3 Antibody - BSA Free NBP1-84796

Unit Size: 0.1 ml

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

### Publications: 4

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**NBP1-84796**

ERp57/PDIA3 Antibody - BSA Free

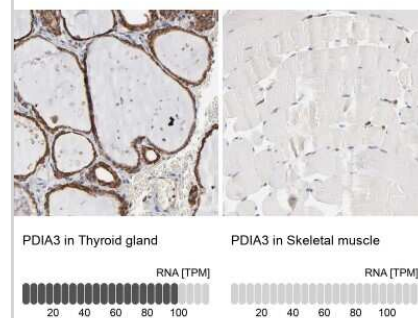
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

Product Description	
<b>Description</b>	Novus Biologicals Rabbit ERp57/PDIA3 Antibody - BSA Free (NBP1-84796) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-ERp57/PDIA3 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	2923
<b>Gene Symbol</b>	PDIA3
<b>Species</b>	Human, Mouse, Rat
<b>Marker</b>	Endoplasmic Reticulum Marker
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: PTLKIFRDGEEAGAYDGPRTADGIVSHLKKQAGPASVPLRTEEEFKKFISDKDA SIVGFFDDSFSEAHSEFLKAASNLRDNYRFAHTNVESLVNEYDDNGEGIILFRPS HLTNKFEDK

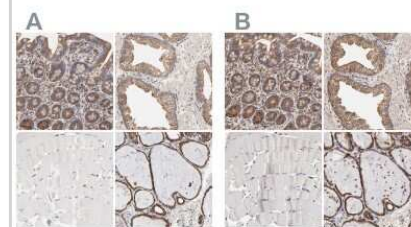
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:2500 - 1:5000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:2500 - 1:5000, Knockdown Validated
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

## Images

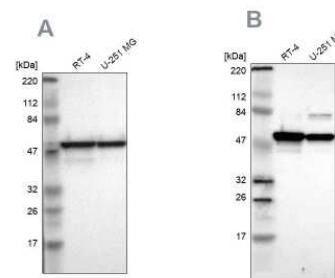
**Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody [NBP1-84796] - Staining in human thyroid gland and skeletal muscle tissues using NBP1-84796 antibody. Corresponding PDIA3 RNA-seq data are presented for the same tissues.**



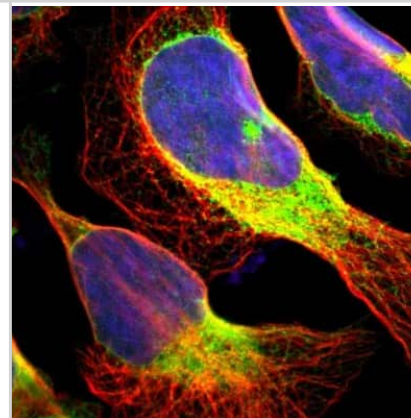
**Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody [NBP1-84796] - Staining of human gastrointestinal, prostate, skeletal muscle and thyroid gland using Anti-PDIA3 antibody NBP1-84796 (A) shows similar protein distribution across tissues to independent antibody NBP1-84797 (B).**



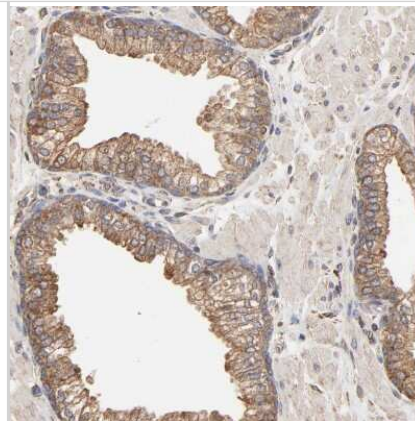
**Western Blot: ERp57/PDIA3 Antibody [NBP1-84796] - Analysis using Anti-PDIA3 antibody NBP1-84796 (A) shows similar pattern to independent antibody NBP1-84797 (B).**



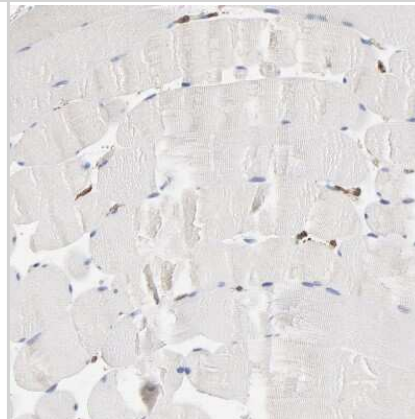
**Immunocytochemistry/Immunofluorescence: ERp57/PDIA3 Antibody [NBP1-84796] - Staining of human cell line U-2 OS shows localization to endoplasmic reticulum. Antibody staining is shown in green.**



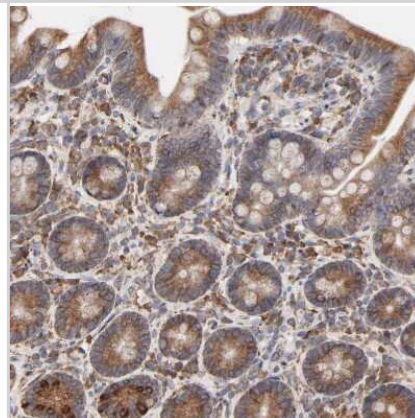
Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody [NBP1-84796] - Staining of human prostate shows moderate cytoplasmic positivity in glandular cells.



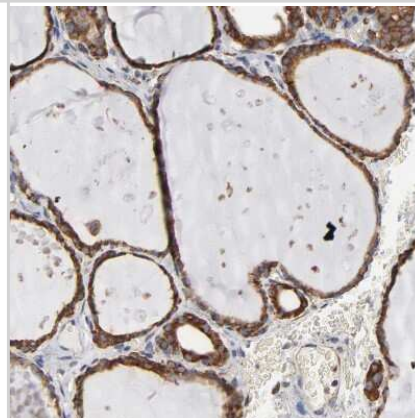
Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody [NBP1-84796] - Staining of human skeletal muscle shows no cytoplasmic positivity in myocytes as expected.



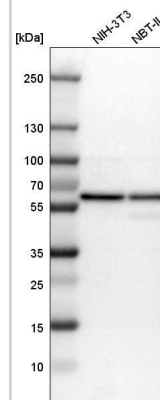
Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody [NBP1-84796] - Staining of human small intestine shows moderate to strong cytoplasmic positivity in glandular cells.



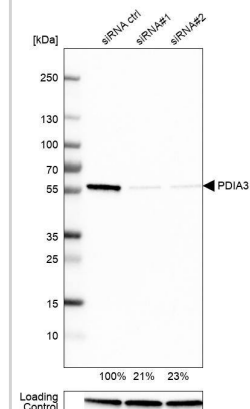
Immunohistochemistry-Paraffin: ERp57/PDIA3 Antibody [NBP1-84796] - Staining of human thyroid gland shows strong cytoplasmic positivity in glandular cells.



Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



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.



## Publications

Bechor E, Dahan I, Fradin T et al. The dehydrogenase region of the NADPH oxidase component Nox2 acts as a protein disulfide isomerase (PDI) resembling PDIA3 with a role in the binding of the activator protein p67phox. *Front Chem* 2015-01-01 [PMID: 25699251] (WB, Human)

Feng H, Li X, Chan V, Chen WN. Proteomics Based Identification of Cell Migration Related Proteins in HBV Expressing HepG2 Cells. *PLoS One* 2014-01-01 [PMID: 24763314] (WB)

Logan CV, Szabadkai G, Sharpe JA et al. Loss-of-function mutations in MICU1 cause a brain and muscle disorder linked to primary alterations in mitochondrial calcium signaling. *Nat Genet* 2014-02-01 [PMID: 24336167]

Racape M, Duong Van Huyen JP, Danger R et al. The involvement of SMILE/TMTC3 in endoplasmic reticulum stress response. *PLoS One* 2011-01-01 [PMID: 21603654]



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### **Products Related to NBP1-84796**

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NBP1-84796PEP	ERp57/PDIA3 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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