

# Product Datasheet

## CLCC1 Antibody - BSA Free

### NBP1-82793

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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#### Publications: 2

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Updated 9/9/2025 v.20.1

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**NBP1-82793**

CLCC1 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>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

**Product Description**

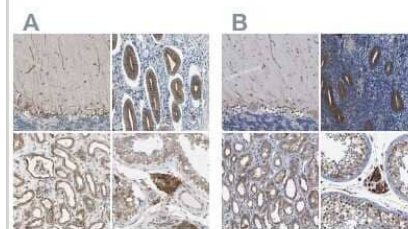
<b>Description</b>	Novus Biologicals Rabbit CLCC1 Antibody - BSA Free (NBP1-82793) is a polyclonal antibody validated for use in IHC and ICC/IF. Anti-CLCC1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	23155
<b>Gene Symbol</b>	CLCC1
<b>Species</b>	Human
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: PPQALRPDRRRQEEIDYRPDGGAGDADFHYRGQMGPTEQGPYAKTYEGRR EILRERDVDLRFQTGNKSPEVLRAFDVPDAEAREHPTVVP SHKSPVLDTKPKE

**Product Application Details**

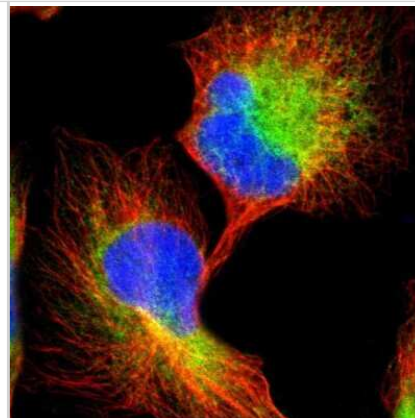
<b>Applications</b>	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200-1:500, Knockdown Validated
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

**Images**

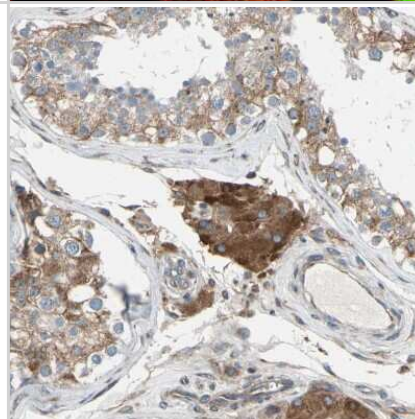
Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] - Staining of human cerebellum, endometrium, kidney and testis using Anti-CLCC1 antibody NBP1-82793 (A) shows similar protein distribution across tissues to independent antibody NBP1-82792 (B).



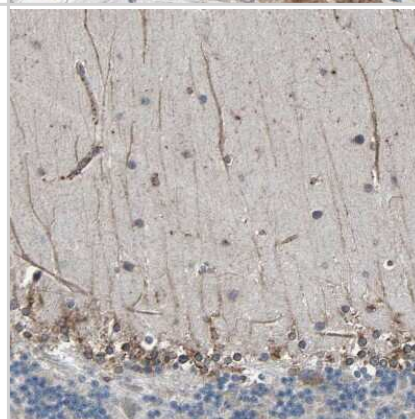
Immunocytochemistry/Immunofluorescence: CLCC1 Antibody [NBP1-82793] - Staining of human cell line U-251 MG shows localization to endoplasmic reticulum. Antibody staining is shown in green.



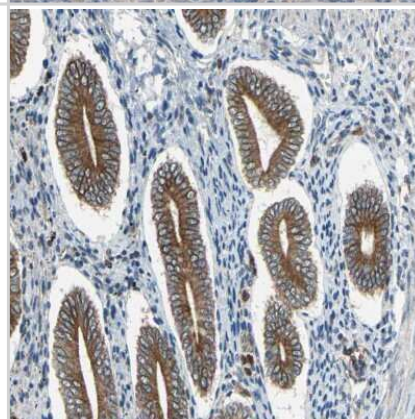
Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] - Staining of human testis shows moderate cytoplasmic positivity in Leydig cells.



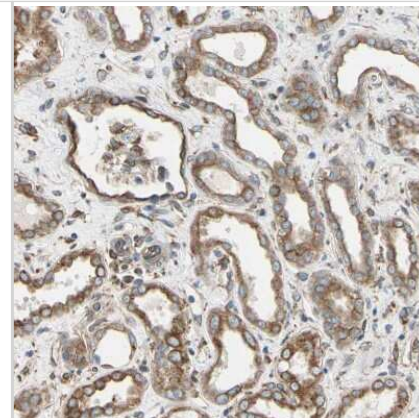
Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] - Staining of human cerebellum shows weak positivity in neuronal processes.



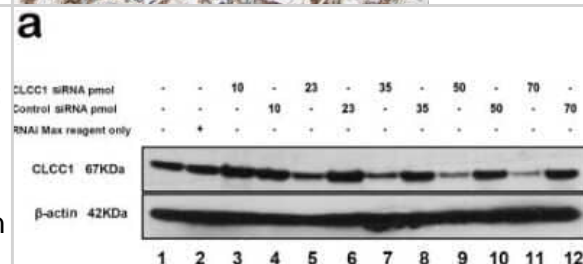
Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] - Staining of human endometrium shows strong cytoplasmic positivity in glandular cells.



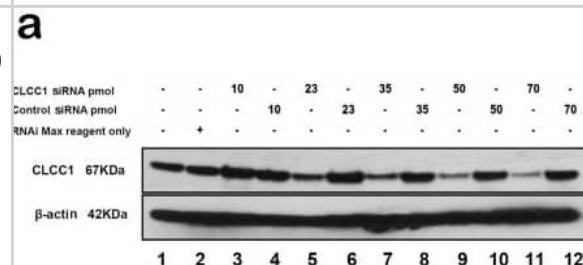
**Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] -**  
Staining of human kidney shows moderate cytoplasmic positivity in cells in tubules.



**Western Blot: CLCC1 Antibody [NBP1-82793] - CLCC1 siRNA**  
interference in ARPE19 cells. Western Blot of SiRNA treated ARPE19 cell lysates probed with CLCC1 antibodies. Lane 1, untransfected lysate; lane 2, transfected with RNAi Max transfection reagent only; lanes 3-12, Increasing CLCC1 and control siRNA amounts from 10 pmol (lanes 3,4) to 70 pmol (lanes 11, 12). CLCC1 proteins migrate at the predicted MW of 67 kDa. The blot shows a dose dependent reduction of CLCC1 protein expression in CLCC1 but not control siRNA treated ARPE19 cells to about 20% of normal. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pgen.1007504>), licensed under a CC-BY license.



**Western Blot: CLCC1 Antibody [NBP1-82793] - CLCC1 siRNA**  
interference in ARPE19 cells.(a) Western Blot of SiRNA treated ARPE19 cell lysates probed with CLCC1 antibodies. Lane 1, untransfected lysate; lane 2, transfected with RNAi Max transfection reagent only; lanes 3-12, Increasing CLCC1 & control siRNA amounts from 10 pmol (lanes 3,4) to 70 pmol (lanes 11, 12). CLCC1 proteins migrate at the predicted MW of 67 kDa. The blot shows a dose dependent reduction of CLCC1 protein expression in CLCC1 but not control siRNA treated ARPE19 cells to about 20% of normal. (b) TUNEL assay after siRNA transfection. Left: TUNEL-positive apoptotic cells (green), Second: CLCC1 (red), Third: DAPI (blue, nucleus). Although there is some variation in intensity of individual cells, probably based on cell size, shape, & orientation, staining for CLCC1 is lower overall in the CLCC1 siRNA treated cells than the control siRNA, control, or DNase 1 cells, consistent with the Western blot in Fig 5a. About 10% of CLCC1 siRNA transfected cells were apoptotic (arrows) but there is minimal apoptosis in control siRNA or untransfected cells. DNase I treated cells were 100% TUNEL-positive. Overlays of images from the first three columns are shown in the right column labeled Merged. Scale Bar: 20 μm. (c) Down regulation of CLCC1 induced apoptosis in nearly 10% of the cells (\*\*\*)  $P < 0.0001$ ,  $t = 14.63$ ) as compared to approximately 1% of cells treated with the control siRNA & less than 1% of untreated cells. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30157172>), licensed under a CC0-1.0 license. Not internally tested by Novus Biologicals.



## Publications

Gruner HN, Zhang Y, Shariati K et al. SARS-CoV-2 ORF3A interacts with the Clic-like chloride channel-1 (CLCC1) and triggers an unfolded protein response PeerJ 2023-04-03 [PMID: 37033725] (ICC/IF, Human)

Details:  
1:50 dilution

Li L, Jiao X, D'Atri I et al. Mutation in the intracellular chloride channel CLCC1 associated with autosomal recessive retinitis pigmentosa. PLoS Genet. 2018-08-01 [PMID: 30157172] (IF/IHC, Human)





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### **Products Related to NBP1-82793**

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NBP1-82793PEP	CLCC1 Recombinant Protein Antigen
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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