

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.

www.novusbio.com



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Publications: 2

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Updated 12/2/2025 v.20.1

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NBP1-82793

CLCC1 Antibody - 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	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

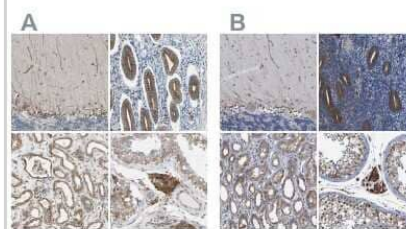
Description	Novus Biologicals Rabbit CLCC1 Antibody - BSA Free (NBP1-82793) is a polyclonal antibody validated for use in IHC and ICC/IF. Anti-CLCC1 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	23155
Gene Symbol	CLCC1
Species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

Product Application Details

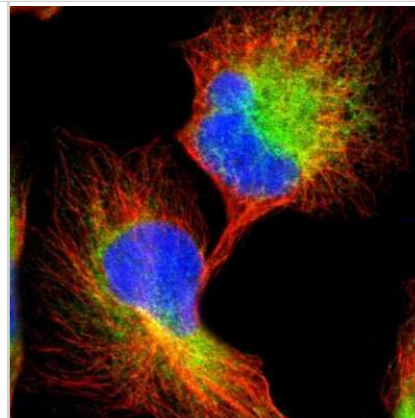
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200-1:500, Knockdown Validated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

Images

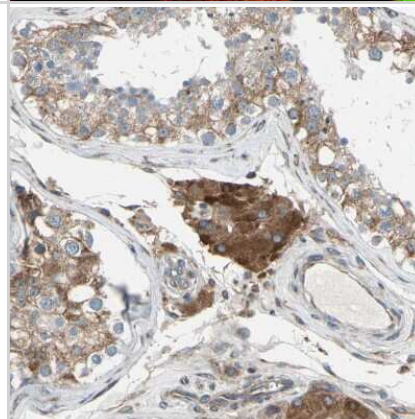
Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] - Staining of human cerebellum, endometrium, kidney and testis using Anti-CLCC1 antibody NBP1-82793 (A) shows similar protein distribution across tissues to independent antibody NBP1-82792 (B).



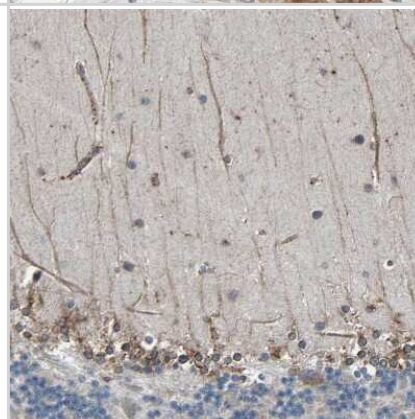
Immunocytochemistry/Immunofluorescence: CLCC1 Antibody [NBP1-82793] - Staining of human cell line U-251 MG shows localization to endoplasmic reticulum. Antibody staining is shown in green.



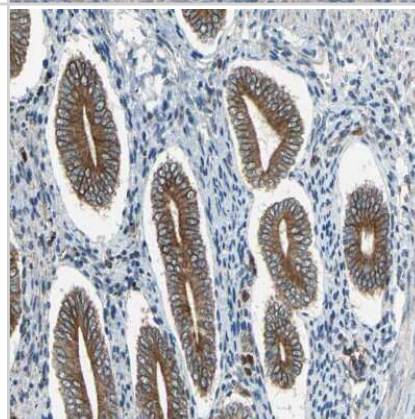
Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] - Staining of human testis shows moderate cytoplasmic positivity in Leydig cells.



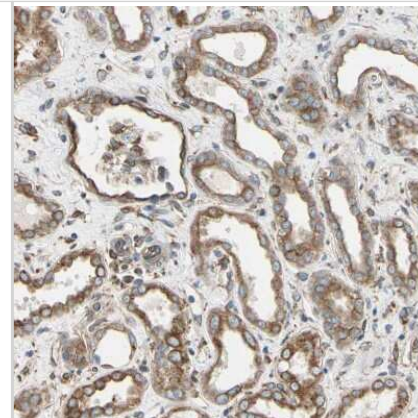
Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] - Staining of human cerebellum shows weak positivity in neuronal processes.



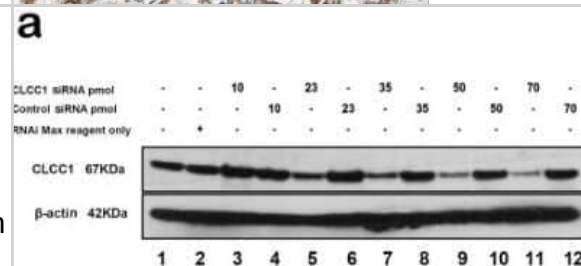
Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] - Staining of human endometrium shows strong cytoplasmic positivity in glandular cells.



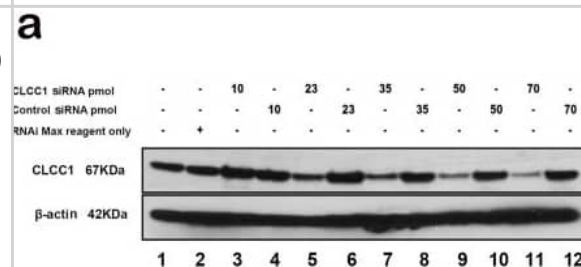
Immunohistochemistry-Paraffin: CLCC1 Antibody [NBP1-82793] - Staining of human kidney shows moderate cytoplasmic positivity in cells in tubules.



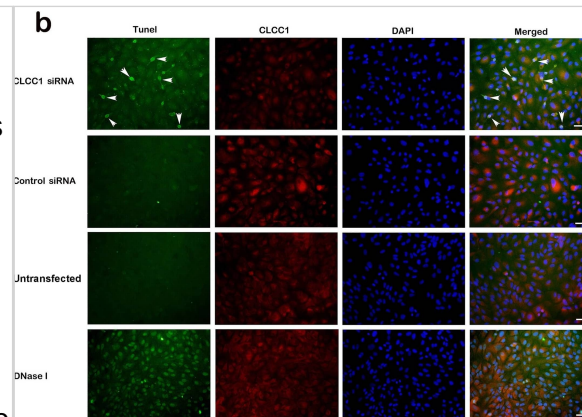
Western Blot: CLCC1 Antibody [NBP1-82793] - CLCC1 siRNA interference in ARPE19 cells. Western Blot of SiRNA treated ARPE19 cell lysates probed with CLCC1 antibodies. Lane 1, untransfected lysate; lane 2, transfected with RNAi Max transfection reagent only; lanes 3-12, Increasing CLCC1 and control siRNA 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.



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 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. (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, and orientation, staining for CLCC1 is lower overall in the CLCC1 siRNA treated cells than the control siRNA, control, or DNase I 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 μ m. (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 and less than 1% of untreated cells. Image collected and cropped by CiteAb from the following open 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

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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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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