

Product Datasheet

Occludin Antibody - BSA Free NBP1-87402

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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Updated 2/21/2025 v.20.1

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NBP1-87402

Occludin 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	Immunogen affinity purified
Buffer	PBS (pH 7.2), 40% Glycerol

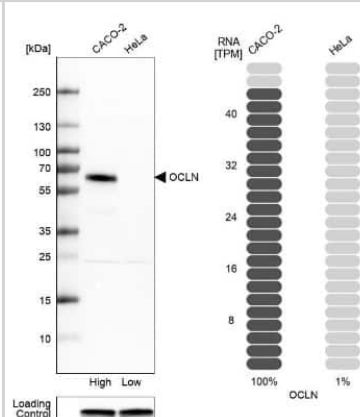
Product Description	
Host	Rabbit
Gene ID	100506658
Gene Symbol	OCLN
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 31715313). Mouse reactivity reported in (PMID: 30685438), and a verified customer review.
Marker	Tight Junctions Marker
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DKEHIYDEQPPNVEEWVKNVSAGTQDVSPSPSDYVERVDSPMAYSSNGKVND KRFYPESYKSTPVPEVVQELPLTSPVDDFRQPRYSSGGNFETPSKRAPAKGR AGRSKRTEQDHYETDYTTGGESCDELEED

Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/mL, ELISA Validated from a verified customer review, Immunohistochemistry 1:200 - 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500, Knockdown Validated
Application Notes	Reviews and literature that use this antibody in ICC/IF are from a previous lot. This antibody is not suitable for ICC/IF usage. For IHC-Paraffin, HIER pH 6 retrieval is recommended



Images

Western Blot: Occludin Antibody [NBP1-87402] - Analysis in human cell line CACO-2 and human cell line HeLa.

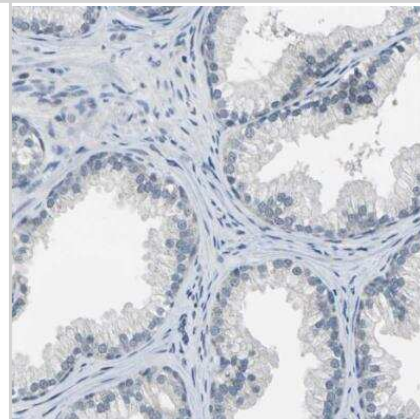


Western Blot: Occludin Antibody [NBP1-87402] - Lane 1: untreated vascular endothelial cells Lane 2: vascular endothelial cells + control siRNA. Primary antibody was diluted 1:1000. WB image submitted by a verified customer review.

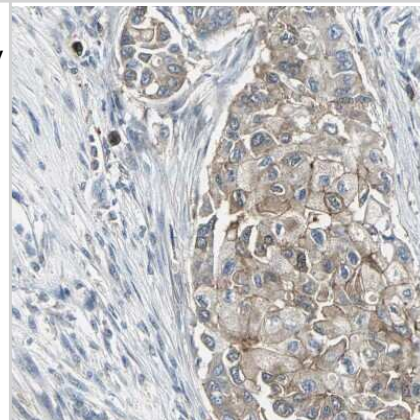


Lane 1: untreated vascular endothelial cells
Lane 2: vascular endothelial cells + control siRNA

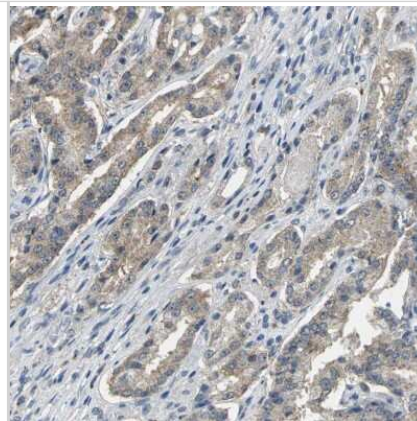
Immunohistochemistry-Paraffin: Occludin Antibody [NBP1-87402] - Staining of human prostate shows negative membranous positivity in glandular cells as expected.



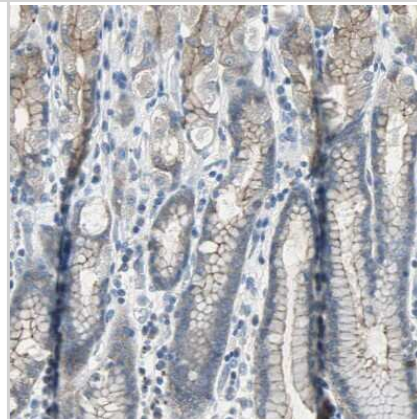
Immunohistochemistry-Paraffin: Occludin Antibody [NBP1-87402] - Staining of human breast cancer shows moderate membranous positivity in tumor cells.



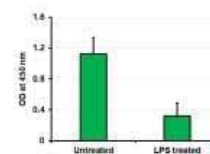
Immunohistochemistry-Paraffin: Occludin Antibody [NBP1-87402] - Staining of human prostate cancer shows moderate membranous positivity in tumor cells.



Immunohistochemistry-Paraffin: Occludin Antibody [NBP1-87402] - Staining of human stomach shows moderate membranous positivity in glandular cells.



ELISA: Occludin Antibody [NBP1-87402] - Occludin levels in untreated and LPS treated rat intestinal tissues. ELISA image submitted by a verified customer review.



Publications

Patterson L, Allen J, Posey I et al. Glucosylceramide production maintains colon integrity in response to *Bacteroides fragilis* toxin-induced colon epithelial cell signaling *FASEB J* 2020-10-13 [PMID: 33047400]

Greene C, Rebergue N, Fewell G et Al. NX210c drug candidate peptide strengthens mouse and human blood-brain barriers *Fluids Barriers CNS* 2024-09-27 [PMID: 39334382]

Lesha Pretorius, Carine Smith Green rooibos (*Aspalathus linearis*) promotes gut health: insight into mechanisms. *Journal of ethnopharmacology* 2023-11-21 [PMID: 37923252]

Marika Haderer, Philip Neubert, Eva Rinner, Annika Scholtis, Lucile Broncy, Heidi Gschwendtner, Arne Kandulski, Vlad Pavel, Alexander Mehrl, Christoph Brochhausen, Sophie Schlosser, Karsten Gülow, Claudia Kunst, Martina Müller Novel pathomechanism for spontaneous bacterial peritonitis: disruption of cell junctions by cellular and bacterial proteases *Gut* 2022-03-01 [PMID: 33707230]

Brychka D, Ayala-Nunez N, Bare Y et al. Targeting monocytic Occludin impairs monocyte transmigration and HIV neuroinvasion *bioRxiv* 2023-09-12 (ICC/IF, Human)

Kansakar U, Gambardella J, Varzideh F et al. miR-142 Targets TIM-1 in Human Endothelial Cells: Potential Implications for Stroke, COVID-19, Zika, Ebola, Dengue, and Other Viral Infections *International Journal of Molecular Sciences* 2022-09-06 [PMID: 36142146] (Western Blot)

Pretorius L, Smith C. *Aspalathus linearis* (Rooibos) and Agmatine May Act Synergistically to Beneficially Modulate Intestinal Tight Junction Integrity and Inflammatory Profile *Pharmaceuticals (Basel)* 2022-09-01 [PMID: 36145318]

Hamade DF, Epperly MW, Fisher R et al. Release of Interferon- γ (IFN- γ) from Probiotic *Limosilactobacillus reuteri*-IFN- γ (LR-IFN- γ) Mitigates Gastrointestinal Acute Radiation Syndrome (GI-ARS) following Whole Abdominal Irradiation *Cancers* 2023-03-08 [PMID: 36980556] (IHC, Mouse)

Werawatganon, D;Vivatvakin, S;Somanawat, K;Tumwasorn, S;Klaikeaw, N;Siriviriyakul, P;Chayanupatkul, M; Effects of probiotics on pancreatic inflammation and intestinal integrity in mice with acute pancreatitis *BMC complementary medicine and therapies* 2023-05-22 [PMID: 37217916] (IHC-P, Mouse)

Wang S, Zhou J, Lu J et al. A ketogenic diet improves vascular hyperpermeability in type 2 diabetic mice by downregulating vascular pscadillo1 expression *Journal of cellular and molecular medicine* 2023-04-15 [PMID: 37060584] (WB, Mouse)

Details:

1:500 WB dilution

Li Y, Wei JY, Liu H et al. An oxygen-adaptive interaction between SNHG12 and occludin maintains blood-brain barrier integrity *Cell reports* 2022-04-12 [PMID: 35417709] (ICC/IF, Human)

Pretorius L, Van Staden ADP, Van der Merwe JJ et al. Alterations to microbial secretome by estrogen may contribute to sex bias in irritable bowel syndrome *Inflammopharmacology* 2022-01-13 [PMID: 35022916]

More publications at <http://www.novusbio.com/NBP1-87402>





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Products Related to NBP1-87402

NBP1-87402PEP	Occludin 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

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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