

Product Datasheet

Claudin-1 Antibody - BSA Free NBP1-77036

Unit Size: 0.1 mg

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

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NBP1-77036

Claudin-1 Antibody - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
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	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	23 kDa
Product Description	
Host	Rabbit
Gene ID	9076
Gene Symbol	CLDN1
Species	Human, Mouse, Rat, Porcine, Canine
Reactivity Notes	Porcine reactivity per customer review. Mouse reactivity reported in (PMID: 33392105), Canine reactivity reported in (PMID: 32419902).
Specificity/Sensitivity	Human Claudin-1 has one isoform (211aa, 23kD). Mouse Claudin-1 has one isoform (211aa, 23kD) and Rat Claudin-1 also has one isoform (211aa, 23kD). NBP1-77036 can detect human, mouse and rat.
Immunogen	Antibody was raised against a peptide corresponding to 20 amino acids near the carboxy terminus of human Claudin-1. The immunogen is located within the last 50 amino acids of Claudin-1. Amino Acid Sequence: PRKTTSYPTPRPYPKPAPS
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 5-20 ug/mL
Application Notes	Use in ICC/IF reported in multiple pieces of scientific literature. Use in IHC reported in scientific literature (PMID:32067099).

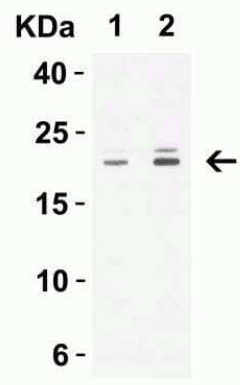


Images

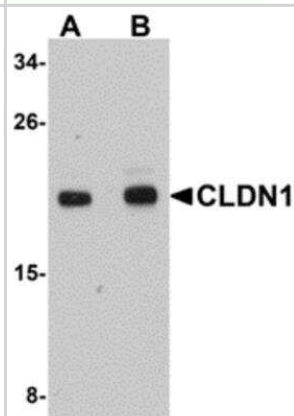
Western Blot: Claudin-1 Antibody - BSA Free [NBP1-77036] - Claudin-1 Antibody [NBP1-77036] - Effects of dietary *Flammulina velutipes* stem waste (FVS) inclusion on the relative expression of tight junction proteins in jejunum of growing pigs. The relative expression of claudin-1 in jejunum of growing pigs fed control and 2.5% or 5% FVS diets. Values are means (3 pigs per treatment) with standard errors represented by vertical bars. *P < 0.05, **P < 0.01 Image collected and cropped by CiteAb from the following publication (<https://jasbsci.biomedcentral.com/articles/10.1186/s40104-020-00449-y>) licensed under a CC-BY license.



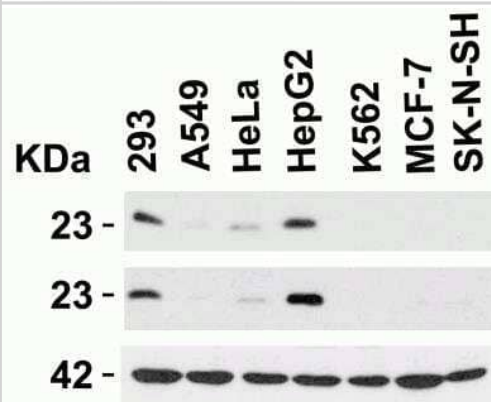
Western Blot: Claudin-1 Antibody - BSA Free [NBP1-77036] - Claudin-1 Antibody [NBP1-77036] - Validation in Human Tissue Lysates Loading: 15 ug of lysates per lane. Antibodies: CLDN1, (1 ug/mL), 1h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



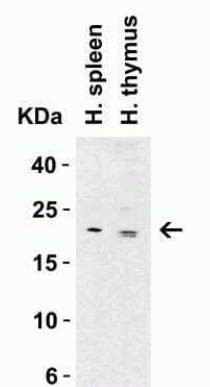
Western Blot: Claudin-1 Antibody - BSA Free [NBP1-77036] - Claudin-1 Antibody [NBP1-77036] - Validation in Human HepG2 Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: CLDN1, 5187 (A: 1 ug/mL and B: 2 ug/mL), 1h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



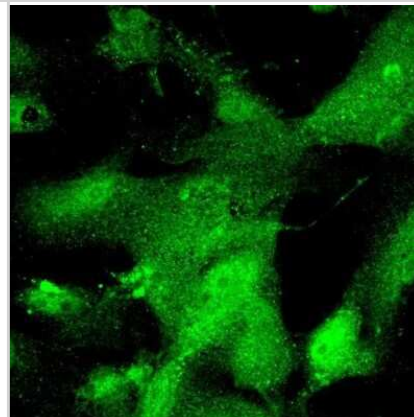
Western Blot: Claudin-1 Antibody - BSA Free [NBP1-77036] - Claudin-1 Antibody [NBP1-77036] - Independent Antibody Validation (IAV) via Protein Expression Profile in Human Cell Lines. Loading: 15 ug of lysates per lane. Antibodies: CLDN1, NBP1-77036 (1 ug/mL), CLDN1, (2 ug/mL), and beta-actin (1 ug/mL), 1h incubation at RT in 5% NFD/MTBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



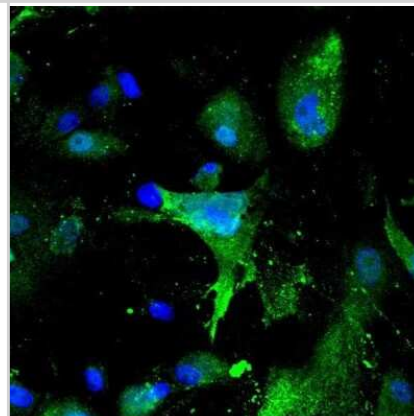
Western Blot: Claudin-1 Antibody - BSA Free [NBP1-77036] - Claudin-1 Antibody [NBP1-77036] - Validation in Human Tissue Lysates Loading: 15 ug of lysates per lane. Antibodies: CLDN1,(1 ug/mL) , 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



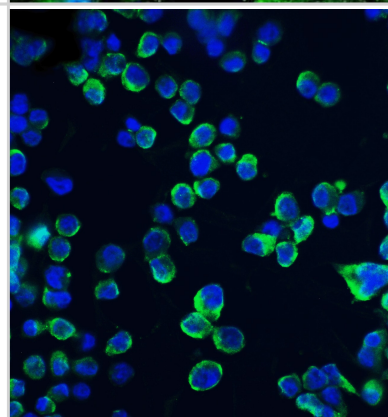
Immunocytochemistry/Immunofluorescence: Claudin-1 Antibody - BSA Free [NBP1-77036] - Claudin-1 Antibody [NBP1-77036] - Claudin-1 labeled pig cultured cornea cells visualized with Alexa488. This image was submitted via customer Review.



Immunocytochemistry/Immunofluorescence: Claudin-1 Antibody - BSA Free [NBP1-77036] - Claudin-1 Antibody [NBP1-77036] - Claudin-1 labeled pig Sc cells visualized with Alexa488. This image was submitted via customer Review.



Immunocytochemistry/ Immunofluorescence: Claudin-1 Antibody - BSA Free [NBP1-77036] - Validation of Claudin-1 in HepG2 Cells. Immunofluorescent analysis of 4% paraformaldehyde-fixed HepG2 cells labeling Claudin-1 with at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



Publications

Shinde, T;Perera, AP;Vemuri, R;Gondalia, SV;Karpe, AV;Beale, DJ;Shastri, S;Southam, B;Eri, R;Stanley, R; Synbiotic Supplementation Containing Whole Plant Sugar Cane Fibre and Probiotic Spores Potentiates Protective Synergistic Effects in Mouse Model of IBD Nutrients 2019-04-11 [PMID: 30979002] (Immunocytochemistry/ Immunofluorescence, Rat)

Lv Q, Xu D, Zhang X et al. Association of Hyperuricemia With Immune Disorders and Intestinal Barrier Dysfunction Frontiers in Physiology 2020-11-27 [PMID: 33329010] (Immunocytochemistry/ Immunofluorescence, Rat)

Lv Q, Xu D, Ma J, Wang Y et Al. Uric acid drives intestinal barrier dysfunction through TSP0-mediated NLRP3 inflammasome activation Inflamm Res 2020-10-19 [PMID: 33074353]

Yang X, Liu D, Zhao X et Al. Hyperuricemia drives intestinal barrier dysfunction by regulating gut microbiota Heliyon 2024-08-30 [PMID: 39224259]

Enrico Gugliandolo, Gianluca Antonio Franco, Ylenia Marino, Alessio Filippo Peritore, Daniela Impellizzeri, Marika Cordaro, Rosalba Siracusa, Roberta Fusco, Ramona D'Amico, Francesco Macrì, Rosanna Di Paola, Salvatore Cuzzocrea, Rosalia Crupi Uroprotective and pain-relieving effect of dietary supplementation with micronized palmitoyl-glucosamine and hesperidin in a chronic model of cyclophosphamide-induced cystitis Frontiers in Veterinary Science 2024-01-04 [PMID: 38249555]

Han B, Lv X, Liu G et al. Gut microbiota-related bile acid metabolism-FXR/TGR5 axis impacts the response to anti- α 4 β 7-integrin therapy in humanized mice with colitis Gut microbes 2023-07-11 [PMID: 37431863] (WB)

Shinde T, Perera AP, Vemuri R et al. Synbiotic supplementation with prebiotic green banana resistant starch and probiotic Bacillus coagulans spores ameliorates gut inflammation in mouse model of inflammatory bowel diseases Eur J Nutr 2020-02-19 [PMID: 32419902] (WB, Human, Canine)

Shi Y, Li R, Yang J et al. No tight junctions in tight junction protein-1 expressing HeLa and fibroblast cells Int J Physiol Pathophysiol Pharmacol 2020-05-19 [PMID: 32067099] (IF/IHC, IHC-P, Mouse)

Lee PC, Hsieh YC, Huo TI et al. Active Vitamin D3 Treatment Attenuated Bacterial Translocation via Improving Intestinal Barriers in Cirrhotic Rats Molecular nutrition & food research 2020-11-30 [PMID: 33258263] (WB, Rat)

Ledwaba S, Costa D, Bolick D et al. Enteropathogenic Escherichia coli (EPEC) Infection Induces Diarrhea, Intestinal Damage, Metabolic Alterations and Increased Intestinal Permeability in a Murine Model bioRxiv 2020-06-13 [PMID: 33392105] (WB, Mouse)

Liu X, Zhang B, Liu H et al. Determination of the available energy values and amino acid digestibility of Flammulina velutipes stem waste and its effects on carcass trait and meat quality fed to growing-finishing pigs J Anim Sci Biotechnol 2020-05-04 [PMID: 32391146] (WB)

Cheng CW, Yu JC, Hsieh YH et al. Increased Cellular Levels of MicroRNA-9 and MicroRNA-221 Correlate with Cancer Stemness and Predict Poor Outcome in Human Breast Cancer Cell. Physiol. Biochem. 2018-08-15 [PMID: 30110679] (WB, Human)

More publications at <http://www.novusbio.com/NBP1-77036>



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Products Related to NBP1-77036

NBP1-77036PEP	Claudin-1 Antibody Blocking Peptide
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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