

# Product Datasheet

## Claudin-1 Antibody (1C5-D9) - Azide and BSA Free H00009076-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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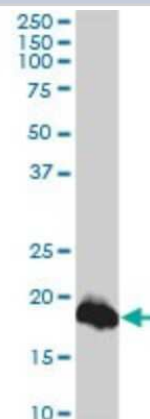


**H00009076-M01****Claudin-1 Antibody (1C5-D9) - Azide and BSA Free**

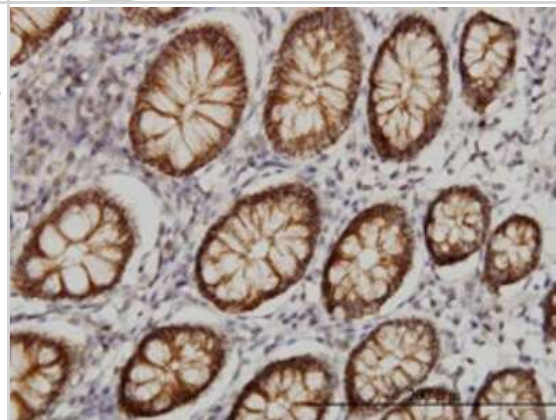
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	1C5-D9
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse Claudin-1 Antibody (1C5-D9) - Azide and BSA Free (H00009076-M01) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. Anti-Claudin-1 Antibody: Cited in 23 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	9076
<b>Gene Symbol</b>	CLDN1
<b>Species</b>	Human, Mouse, Monkey
<b>Specificity/Sensitivity</b>	CLDN1 - claudin 1
<b>Immunogen</b>	CLDN1 (AAH12471.1, 1 a.a. ~ 211 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MANAGLQLLGFILAFILGWIGAIIVSTALPQWRIYSYAGDNIVTAQAMYEGGLWMSCVSQSTGQIQCKVFDSLLNLSSTLQATRALMVVGILLGVIAIFVATVGMKCMKCLE DDEVQKMRMAVIGGAIFLLAGLAILVATAWYGNRIVQEFYDPMTPVNARYEFGQ ALFTGWAAASLCLLGGALLCCSCPRKTTSYPTPRYPKPAPSSGKDYV
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:500, Flow Cytometry, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
<b>Application Notes</b>	Antibody reactive against cell lysate, transfected lysate and recombinant protein for Western Blot. Has also been used for immunohistochemistry (paraffin) and ELISA. Use in Immunocytochemistry/Immunofluorescence reported in scientific literature (PMID:31769164).

## Images

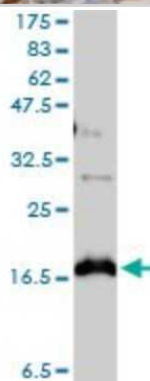
Western Blot: Claudin-1 Antibody (1C5-D9) [H00009076-M01] - CLDN1 monoclonal antibody (M01), clone 1C5-D9. Analysis of CLDN1 expression in A-431.



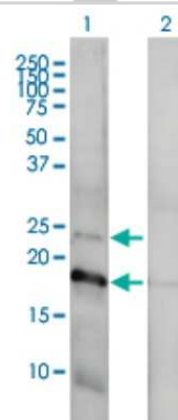
Immunohistochemistry-Paraffin: Claudin-1 Antibody (1C5-D9) [H00009076-M01] - Analysis of monoclonal antibody to CLDN1 on formalin-fixed paraffin-embedded human colon. Antibody concentration 5 ug/ml.



Western Blot: Claudin-1 Antibody (1C5-D9) [H00009076-M01] - CLDN1 monoclonal antibody (M01), clone 1C5-D9. Analysis of CLDN1 expression in PRC/PRF/5.



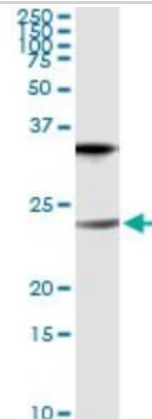
Western Blot: Claudin-1 Antibody (1C5-D9) [H00009076-M01] - Analysis of CLDN1 expression in transfected 293T cell line by CLDN1 monoclonal antibody (M01), clone 1C5-D9. Lane 1: CLDN1 transfected lysate (23 kDa). Lane 2: Non-transfected lysate.



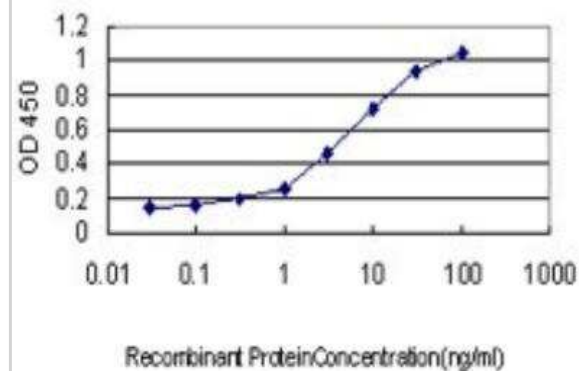
Immunohistochemistry-Paraffin: Claudin-1 Antibody (1C5-D9) [H00009076-M01] - Analysis of monoclonal antibody to CLDN1 on formalin-fixed paraffin-embedded human small Intestine. Antibody concentration 3 ug/ml.



Immunoprecipitation: Claudin-1 Antibody (1C5-D9) [H00009076-M01] - Analysis of CLDN1 transfected lysate using anti-CLDN1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with CLDN1 MaxPab rabbit polyclonal antibody.



ELISA: Claudin-1 Antibody (1C5-D9) [H00009076-M01] - Detection limit for recombinant GST tagged CLDN1 is approximately 0.03ng/ml as a capture antibody.



## Publications

A Schöbel, K Rösch, E Herker Functional innate immunity restricts Hepatitis C Virus infection in induced pluripotent stem cell-derived hepatocytes *Sci Rep*, 2018-03-01;8(1):3893. 2018-03-01 [PMID: 29497123]

Sekhar V, Pollicino T, Diaz G et al. Infection with hepatitis C virus depends on TACSTD2, a regulator of claudin-1 and occludin highly downregulated in hepatocellular carcinoma. *PLoS Pathog*. 2018-03-14 [PMID: 29538454]

Jevtic M Fine-Tuning of Organotypic Skin Equivalents for Preclinical Research and Their Utilization to Study Epidermal-Dermal Crosstalk Thesis 2021-01-01 (WB, ICC/IF)

Lowa A New biomedical approaches for studying (patho) physiological conditions of healthy and inflamed skin in vitro Thesis 2020-01-01 (ICC/IF, WB, Human)

Yamamoto D, Kayamori K, Sakamoto K et al. Intracellular claudin-1 at the invasive front of tongue squamous cell carcinoma is associated with lymph node metastasis *Cancer Sci*. 2020-02-01 [PMID: 31769164] (ICC/IF, Human)

Struver K, Friess W, Hedtrich S. et al. Development of a Perfusion Platform for Dynamic Cultivation of in vitro Skin Models. *Skin Pharmacol Physiol* 2017-06-27 [PMID: 28651246]

Islam MJ, Amin MB, Uddin MKM et al. Mouse homologues of hepatitis C virus human entry factors inhibit the entry of HCV pseudoparticles (HCVpp) into human hepatoma cells. *Bioresearch Communications* 2016-01-01 (WB, Human)

Volz P, Schilrreff P, Brodewolf R et al. Pitfalls in using fluorescence tagging of nanomaterials: tecto-dendrimers in skin tissue as investigated by Cluster-FLIM. *Ann. N. Y. Acad. Sci*. 2017-10-01 [PMID: 28985028] (Human)

Nakatsukasa M, Kawasaki S, Yamasaki K et al. Tumor-Associated Calcium Signal Transducer 2 Is Required for the Proper Subcellular Localization of Claudin 1 and 7. Implications in the Pathogenesis of Gelatinous Drop-Like Corneal Dystrophy. *Am J Pathol*. 2010-07-22 [PMID: 20651236]

Kanki Y, Kohro T, Jiang S et al. Epigenetically coordinated GATA2 binding is necessary for endothelium-specific endomucin expression. *EMBO J*. 2011-06-10 [PMID: 21666600]

Fletcher NF, Wilson GK, Murray J et al. Hepatitis C Virus Infects the Endothelial Cells of the Blood-Brain Barrier. *Gastroenterology*. 2011-11-30 [PMID: 22138189]

Sainz B Jr, Barretto N, Yu X et al. Permissiveness of human hepatoma cell lines for HCV infection. *Virology*. 2012-01-24 [PMID: 22273112]

More publications at <http://www.novusbio.com/H00009076-M01>



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General: novus@novusbio.com

### **Products Related to H00009076-M01**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)

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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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