

Claudin 1 Monoclonal Antibody (SP128)

Product Details	
Size	500 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Monoclonal
Type	Antibody
Clone	SP128
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to the C-terminus of human claudin-1 protein
Form	Liquid
Purification	Protein A/G
Storage buffer	PBS, pH 7.6, with 1% BSA
Contains	0.1% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2537870

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:200	-
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1:100	-

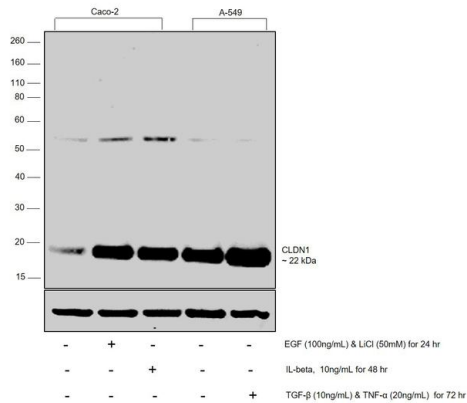
Product Specific Information

Heat-mediated antigen retrieval is recommended prior to staining, using a 1mM EDTA buffer, pH 8.0, for 10 minutes followed by cooling at room temperature for 20 min. Following antigen retrieval, incubate samples with primary antibody for 30 min at room temperature. A suggested positive control is liver, hepatocellular carcinoma or ovarian carcinoma.

Product Images For Claudin 1 Monoclonal Antibody (SP128)

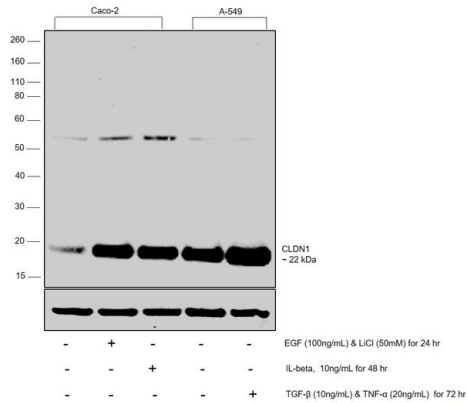
Claudin 1 Antibody (MA5-16351)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using Claudin1 Monoclonal Antibody (SP128) (Product # MA5-16351), shows increased expression of proteins in Caco-2 cells upon EGF and LiCl treatment (doi: 10.3892/ijo.2011.955), IL-beta treatment (doi: 10.4049/jimmunol.178.7.4641) and in A-549 cells upon TGF-beta and TNF-alpha treatment (doi: 10.1371/journal.pone.0038049). {TM}



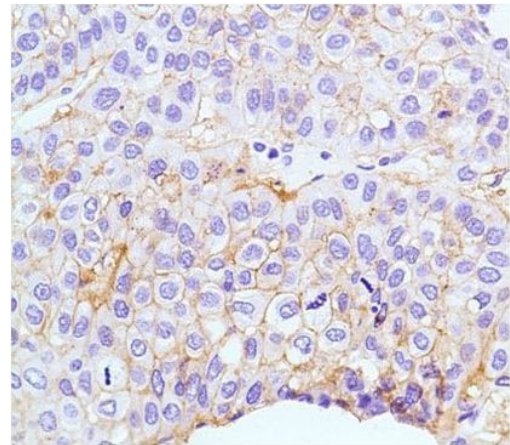
Claudin 1 Antibody (MA5-16351) in WB

Western blot was performed using Anti-CLDN1 Monoclonal Antibody (SP128) (Product # MA5-16351) and a 22 kDa band corresponding to CLDN1 was observed across cell lines tested and increased upon treatment. Membrane enriched extracts (30 µg lysate) of Caco-2 (Lane 1), Caco-2 treated with EGF (100 ng/mL) and LiCl (50mM) simultaneously for 24 hr (Lane 2), Caco-2 treated with IL-beta (10 ng/mL for 48 hr) (Lane 3), (25 µg lysate) of A-549 (Lane 4) and A-549 treated with TGF-beta (10 ng/mL) and TNF-alpha (20 ng/mL) simultaneously for 72 hr (Lane 5) were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1,000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4,000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



Claudin 1 Antibody (MA5-16351) in IHC (P)

Immunohistochemical analysis of Claudin-1 using anti-Claudin-1 Monoclonal Antibody (Product # MA5-16351) in Hepatocellular Carcinoma Cancer Tissue. The recommended dilution for this antibody in immunohistochemistry applications is 1:200.



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Immunohistochemistry (1)

Frontiers in bioengineering and biotechnology	Year 2020
Development of an Improved 3D <i>in vitro</i> Intestinal Model to Perform Permeability Studies of Paracellular Compounds.	Species Human
"MA5-16351 was used in Immunocytochemistry to develop a new three-dimensional (3D) intestinal model that aims to bridge the gap between in vitro tools and animal studies."	Dilution 1:200
Authors: Macedo MH,Martínez E,Barrias CC,Sarmiento B	

Immunocytochemistry (1)

Frontiers in bioengineering and biotechnology	Year 2020
Development of an Improved 3D <i>in vitro</i> Intestinal Model to Perform Permeability Studies of Paracellular Compounds.	Species Human
"MA5-16351 was used in Immunocytochemistry to develop a new three-dimensional (3D) intestinal model that aims to bridge the gap between in vitro tools and animal studies."	Dilution 1:200
Authors: Macedo MH,Martínez E,Barrias CC,Sarmiento B	

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