

Product Datasheet

Claudin-19 Antibody (2F2) - Azide and BSA Free H00149461-M02

Unit Size: 0.1 mg

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

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Publications: 5

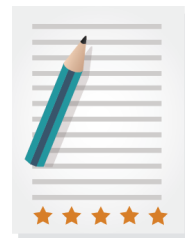
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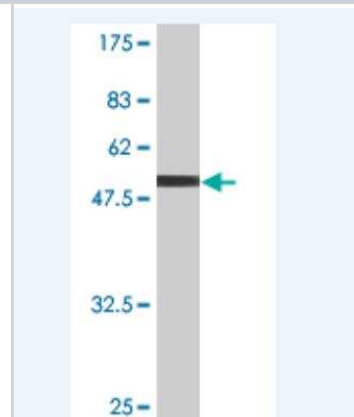
H00149461-M02**Claudin-19 Antibody (2F2) - Azide and BSA Free**

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2F2
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Novus Biologicals Mouse Claudin-19 Antibody (2F2) - Azide and BSA Free (H00149461-M02) is a monoclonal antibody validated for use in WB, ELISA and ICC/IF. Anti-Claudin-19 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	149461
Gene Symbol	CLDN19
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28524846).
Specificity/Sensitivity	CLDN19 - claudin 19 (2F2)
Immunogen	CLDN19 (AAH30524, 1 a.a. ~ 211 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MANSGQLQLLGYFLALGGWVGIIASTALPQWKQSSYAGDAITAVGLYEGLWMS CASQSTGQVQCKLYDSLLALDGHISARALMVAVLLGFVAMVLSVVGKCTR VGDSNPIAKGRVAIAGGALFILAGLCTLTAVSWYATLVTQEFFNPSTPVNARYEF GPALFVGWASAGLAVLGGSFLLCCTCPEPERPNSSPQPYRPGPSAAAREYV
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:500, ELISA 1:100-1:2000, Immunocytochemistry/ Immunofluorescence 1:10-1:2000
Application Notes	Antibody Reactive Against Recombinant Protein with GST tag on ELISA and Western Blot. GST tag alone is used as a negative control. Immunocytochemistry/Immunofluorescence was reported in scientific literature.

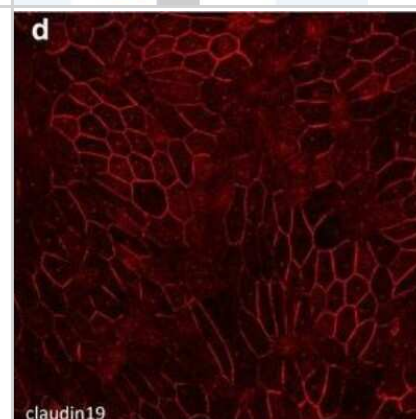


Images

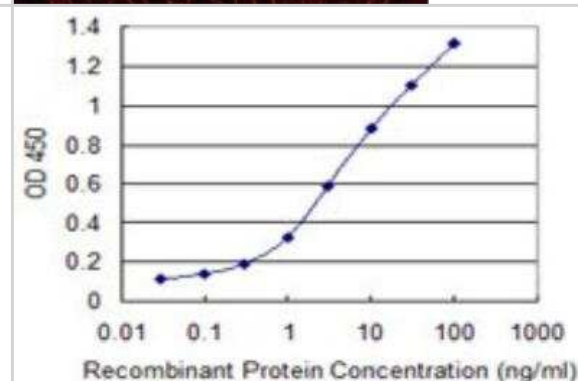
Western Blot: Claudin-19 Antibody (2F2) [H00149461-M02] - Detection against Immunogen (48.95 KDa) .



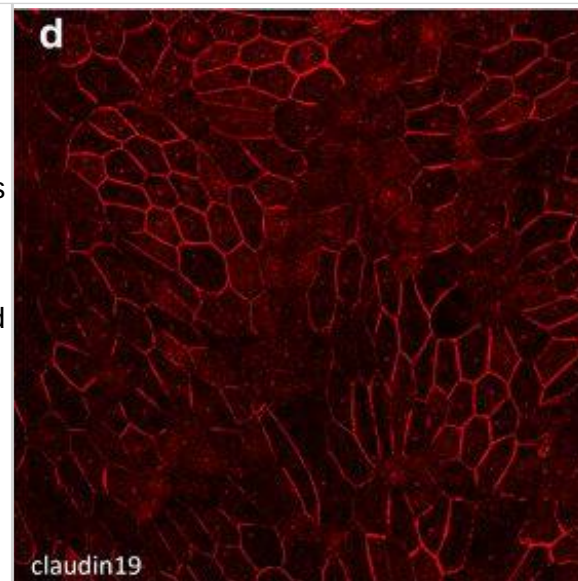
Immunocytochemistry/Immunofluorescence: Claudin-19 Antibody (2F2) [H00149461-M02] - Tight junction proteins and the transepithelial resistance of iPSC-RPE. RPE cells were cultured on laminin-coated Transwell inserts. Immunostaining of the iPSC-RPE cells revealed surface expression of the claudin19. Image collected and cropped by CiteAb from the following publication (<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-017-0652-9>), licensed under a CC-BY license.



ELISA: Claudin-19 Antibody (2F2) [H00149461-M02] - Detection limit for recombinant GST tagged CLDN19 is 0.1 ng/ml as a capture antibody.



Immunocytochemistry/ Immunofluorescence: Claudin-19 Antibody (2F2) [H00149461-M02] - Tight junction proteins & the transepithelial resistance of iPSC-RPE. RPE cells were cultured on laminin-coated Transwell inserts. a Phalloidin labeling demonstrates the cortical arrangement of actin filaments in iPSC-RPE. b–d Immunostaining of the iPSC-RPE cells revealed surface expression of the tight junction proteins ZO-1 (b), occludin (c), & claudin19 (d). e To assess the barrier function of the iPSC-RPE cells, the resistance across monolayers of cells cultured on laminin-coated Transwell inserts was measured at 2-week intervals, following initiation of the cultures. The net TER was determined by subtracting the resistance across a laminin-coated Transwell insert lacking cells, & multiplying by the surface area of the insert (0.33 cm²). The net TER of the iPSC-RPE cells steadily increased between weeks 2 & 8, until it reached a maximal value of just above 200 Ω .cm². Resistance recordings were made from four individual cultures. e Error bars represent the mean $\pm$ the SEM. Scale bars: a–d = 20 μ m. ZO-1 zonula occludens-1, TER transepithelial resistance Image collected & cropped by CiteAb from the following publication (<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-017-0652-9>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

□lvarez-Barrios A, □lvarez L, Artime E et al. Altered zinc homeostasis in a primary cell culture model of the retinal pigment epithelium *Frontiers in Nutrition* 2023-04-17 [PMID: 37139441] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human)

Álvarez-Barrios A, Álvarez L, Pereiro R et Al. Elemental mass spectrometry to study metallo-transcriptomic changes during the in vitro degeneration of the retinal pigment epithelium *Anal Bioanal Chem* 2023-07-29 [PMID: 37507467]

Hazim RA, Karumbayaram S, Jiang M et al. Differentiation of RPE cells from integration-free iPS cells and their cell biological characterization. *Stem Cell Res Ther.* 2017-10-02 [PMID: 28969679] (ICC/IF, Human)

Benedicto I, Lehmann GL, Ginsberg M et al. Concerted regulation of retinal pigment epithelium basement membrane and barrier function by angiocrine factors. *Nat Commun.* 2017-05-19 [PMID: 28524846] (ICC/IF, Mouse)

Peng S, Adelman RA, Rizzolo LJ. Minimal effects of VEGF and anti-VEGF drugs on the permeability or selectivity of RPE tight junctions *Invest Ophthalmol Vis Sci* 2010-06-01 [PMID: 20042644] (WB, ICC/IF, Human)

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Products Related to H00149461-M02

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
DVE00	VEGF [HRP]

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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