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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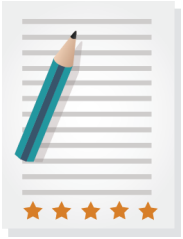
Updated 2/21/2025 v.20.1



H00149461-M02

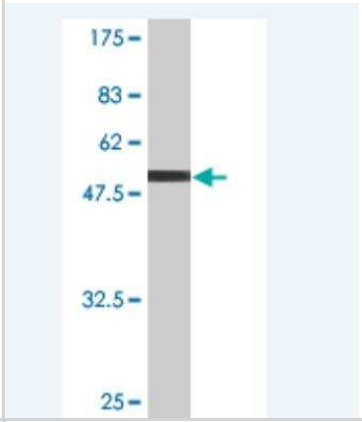
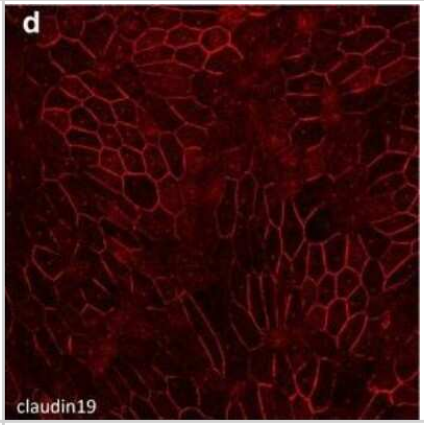
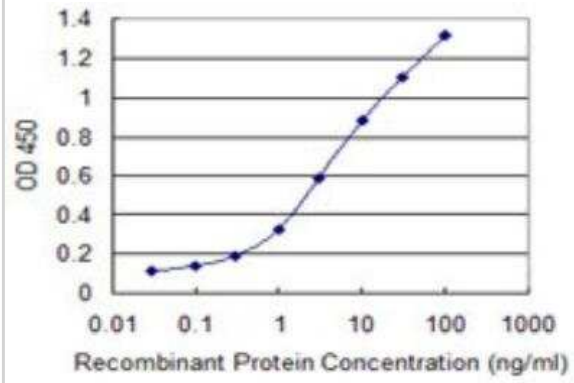
Claudin-19 Antibody (2F2) - Azide and BSA Free

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

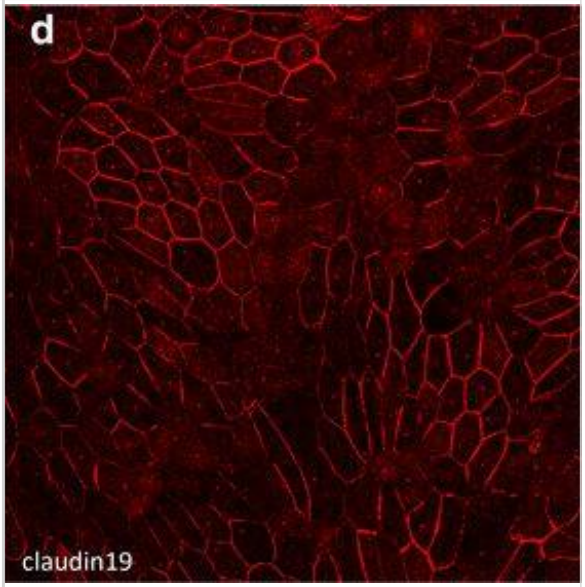
Product Description	
Host	Mouse
Gene ID	149461
Gene Symbol	CLDN19
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28524846).
Specificity/Sensitivity	CLDN19 - claudin 19 (2F2)
Immunogen	CLDN19 (AAH30524, 1 a.a. ~ 211 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MANSGLQLLGYFLALGGWVGIIASTALPQWKQSSYAGDAIITAVGLYEGLWMS CASQSTGQVQCKLYDSLLALDGHIQSARALMVVAVLLGFVAMVLSVVGMKCTR VGDSNPIAKGRVAIAGGALFILAGLCTLTAVSWYATLVTQEFFNPSTPVNARYEF GPALFVGWASAGLAVLGGSFLCCTCPEPERPNSSPQPYRPGPSAAAREYV
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 ± the SEM. Scale bars: a–d = 20 µm. 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

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]

□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] (Immunocytochemistry/ Immunofluorescence)

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]

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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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