Product Datasheet

FCHSD1 Antibody (4G4) - Azide and BSA Free
H00089848-M01

Unit Size: 0.1 mg

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

www.novusbio.com technical@novusbio.com

Publications: 1

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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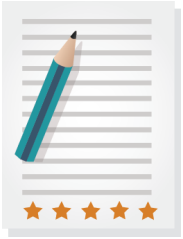
Updated 9/9/2025 v.20.1



H00089848-M01

FCHSD1 Antibody (4G4) - 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	4G4
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4

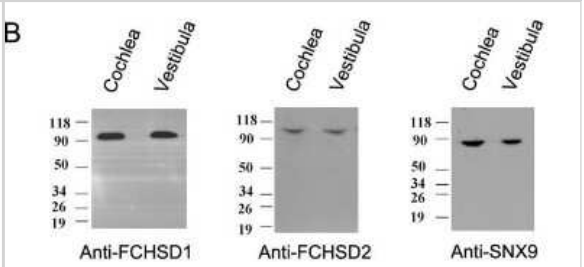
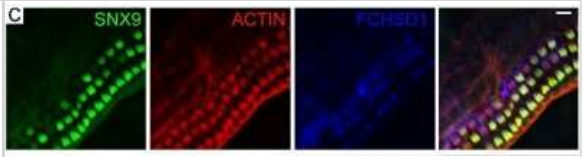
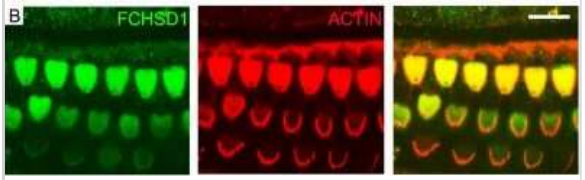
Product Description

Description	Novus Biologicals Mouse FCHSD1 Antibody (4G4) - Azide and BSA Free (H00089848-M01) is a monoclonal antibody validated for use in WB, ELISA and ICC/IF. Anti-FCHSD1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	89848
Gene Symbol	FCHSD1
Species	Human, Mouse
Specificity/Sensitivity	FCHSD1 - FCH and double SH3 domains 1
Immunogen	FCHSD1 (AAH47016, 1 a.a. ~ 409 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MDSRTVFGAWRCLLDATVAGGQTRLQASDRYRDLAGGTGRSAKEQVLRKGT ENLQRAQAEVLQSVRELSRSRKLYGQRERVWALAQEKAADVQARLNRSDHGI FHSRTSLQKLSTKLSAQSAQYSQQLQAARNEYLLNLVATNAHLDHYYQEELPA LLKALVSELSEHLRDPLTSLSHTELEAAEVILEHAHRGEQTTSQVSWEQDLKLF LQEPGVFSPTPPQQFQPAGTDQVCVLEWGAEGVAGKSGLEKEVQRLTSRAA RDYKIQNHGHRVLQRLEQRRQQASEREAPSIEQRLQEVRESIRRAQVSQVKG AARLALLQGAGLDVERWLKPAMTQAQDEVEQERRLSEARLSQRDLSPTAEDA ELSDFEECEETGELFEEPAPQALATRALPCPAHVVFRYQGVRMS
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, ELISA, Immunocytochemistry/ Immunofluorescence
Application Notes	Antibody reactive against recombinant protein on ELISA. Western Blot was reported in scientific literature.

Images

Western Blot: FCHSD1 Antibody (4G4) [H00089848-M01] - Total proteins of postnatal day 5 mouse cochlea and vestibula were extracted and separated by PAGE and detected with antibodies against FCHSD1 (Novus), FCHSD2, or SNX9. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0056516), licensed under a CC-BY license.	
Immunocytochemistry/Immunofluorescence: FCHSD1 Antibody (4G4) [H00089848-M01] - SNX9 colocalizes with FCHSD1 in the cuticular plate of mouse cochlear hair cells. Shown are single confocal sections. SNX9 immunoreactivity visualized with FITC-conjugated secondary antibody was distinctly associated with the cuticular plate, which was visualized with rhodamine-conjugated phalloidin. SNX9 immunoreactivity in the cuticular plate of 2-week old mouse cochlear hair cells. SNX9 immunoreactivity colocalized with FCHSD1 immunoreactivity, which was visualized with Cy5-conjugated secondary antibody, in the cuticular plate of 3 week-old mouse cochlear hair cells. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0056516), licensed under a CC-BY license.	
Immunocytochemistry/Immunofluorescence: FCHSD1 Antibody (4G4) [H00089848-M01] - FCHSD1 and FCHSD2 immunolocalization in mouse cochlear hair cells. Shown are single confocal sections. FCHSD1 or FCHSD2 immunoreactivity visualized with Cy5 or FITC-conjugated secondary antibody was distinctly associated with stereocilia or cuticular plate, which were visualized with rhodamine-conjugated phalloidin. FCHSD1 immunoreactivity in the cuticular plate of 3-week old mouse cochlear hair cells. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0056516), licensed under a CC-BY license.	
Immunocytochemistry/Immunofluorescence: FCHSD1 Antibody (4G4) [H00089848-M01] - FCHSD1 and FCHSD2 immunolocalization in mouse cochlear hair cells. Shown are single confocal sections. FCHSD1 or FCHSD2 immunoreactivity visualized with Cy5 or FITC-conjugated secondary antibody was distinctly associated with stereocilia or cuticular plate, which were visualized with rhodamine-conjugated phalloidin. FCHSD1 immunoreactivity in the cuticular plate of 3-week old mouse outer hair cells. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0056516), licensed under a CC-BY license.	

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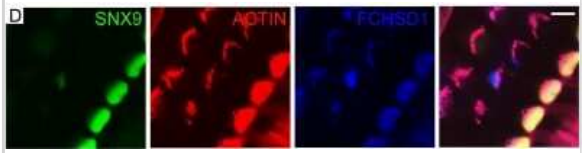
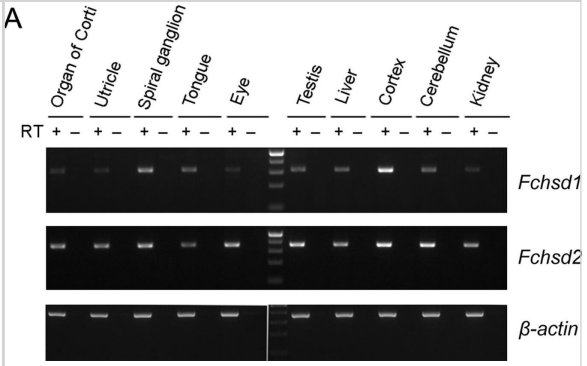


Western Blot: FCHSD1 Antibody (4G4) [H00089848-M01] - Expression analysis of mouse Fchsd1 & Fchsd2 in different tissues.(A) Total RNA from postnatal day 5 mouse tissues was extracted & used as template for reverse transcription. PCR was performed using this cDNA as template. Upper panel, Fchsd1 mRNA is expressed more abundantly in nervous tissues. Middle panel, Fchsd2 mRNA is expressed ubiquitously in all tissues examined. Lower panel, β-actin specific primers were used as the RT-PCR template control. (B) Total proteins of postnatal day 5 mouse cochlea & vestibula were extracted & separated by PAGE & detected with antibodies against FCHSD1(Novus), FCHSD2, or SNX9. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/23437151), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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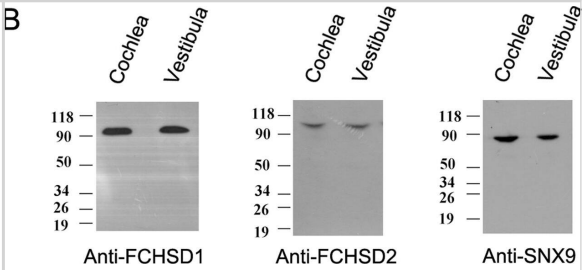

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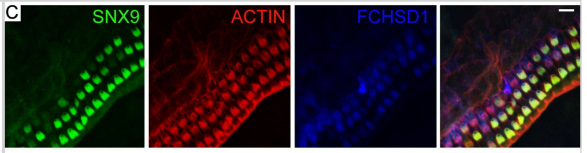
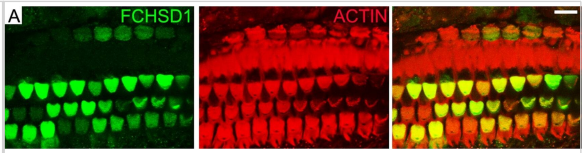
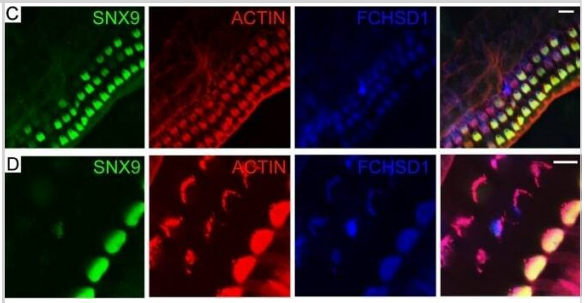
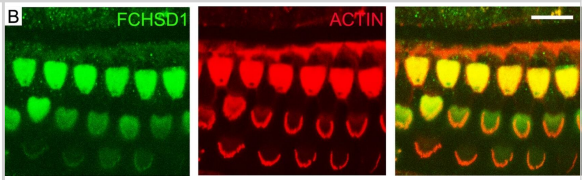


Immunocytochemistry/ Immunofluorescence: FCHSD1 Antibody (4G4) [H00089848-M01] - FCHSD1 & FCHSD2 immunolocalization in mouse cochlear hair cells.Shown are single confocal sections. FCHSD1 or FCHSD2 immunoreactivity visualized with Cy5 or FITC-conjugated secondary antibody was distinctly associated with stereocilia or cuticular plate, which were visualized with rhodamine-conjugated phalloidin. (A) FCHSD1 immunoreactivity in the cuticular plate of 3-week old mouse cochlear hair cells. (B) FCHSD1 immunoreactivity in the cuticular plate of 3-week old mouse outer hair cells. (C) FCHSD2 immunoreactivity in the hair bundles of 6-week old mouse cochlear hair cells. (D) FCHSD2 immunoreactivity in the hair bundles of 7-month old mouse inner hair cells. (E) FCHSD2 immunoreactivity in the hair bundles of 2-week old mouse outer hair cells. The Novus FCHSD1 antibody was used in (A) & (B). Scale bars: 10 µm in(A-C), 5 µm in (D) & (E). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/23437151), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Immunocytochemistry/ Immunofluorescence: FCHSD1 Antibody (4G4) [H00089848-M01] - SNX9 colocalizes with FCHSD1 in the cuticular plate of mouse cochlear hair cells.Shown are single confocal sections. SNX9 immunoreactivity visualized with FITC-conjugated secondary antibody was distinctly associated with the cuticular plate, which was visualized with rhodamine-conjugated phalloidin. (A) SNX9 immunoreactivity in the cuticular plate of 2-week old mouse cochlear hair cells. (B) SNX9 immunoreactivity in the cuticular plate of 3-week old mouse outer hair cells. (C) & (D) SNX9 immunoreactivity colocalized with FCHSD1 immunoreactivity, which was visualized with Cy5-conjugated secondary antibody, in the cuticular plate of 3 week-old mouse cochlear hair cells. The Novus FCHSD1 antibody was used in (C) & (D). Scale bars: 10 µm in (A–C), 5 µm in (D). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/23437151), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Immunocytochemistry/ Immunofluorescence: FCHSD1 Antibody (4G4) [H00089848-M01] - FCHSD1 & FCHSD2 immunolocalization in mouse cochlear hair cells.Shown are single confocal sections. FCHSD1 or FCHSD2 immunoreactivity visualized with Cy5 or FITC-conjugated secondary antibody was distinctly associated with stereocilia or cuticular plate, which were visualized with rhodamine-conjugated phalloidin. (A) FCHSD1 immunoreactivity in the cuticular plate of 3-week old mouse cochlear hair cells. (B) FCHSD1 immunoreactivity in the cuticular plate of 3-week old mouse outer hair cells. (C) FCHSD2 immunoreactivity in the hair bundles of 6-week old mouse cochlear hair cells. (D) FCHSD2 immunoreactivity in the hair bundles of 7-month old mouse inner hair cells. (E) FCHSD2 immunoreactivity in the hair bundles of 2-week old mouse outer hair cells. The Novus FCHSD1 antibody was used in (A) & (B). Scale bars: 10 µm in(A-C), 5 µm in (D) & (E). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/23437151), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

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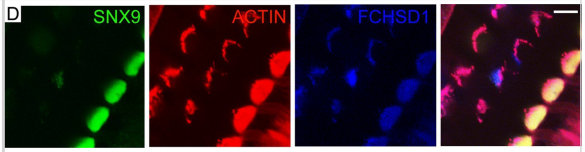

Publications

Cao H, Yin X, Cao Y et al. FCHSD1 and FCHSD2 Are Expressed in Hair Cell Stereocilia and Cuticular Plate and Regulate Actin Polymerization In Vitro PLoS One 2013-02-20 [PMID: 23437151] (IF/IHC, Mouse)

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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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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