Product Datasheet

CCDC114 Antibody - BSA Free
NBP1-93863

Unit Size: 0.1 ml

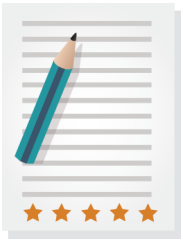
Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com technical@novusbio.com

Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-93863

Updated 12/2/2025 v.20.1



NBP1-93863

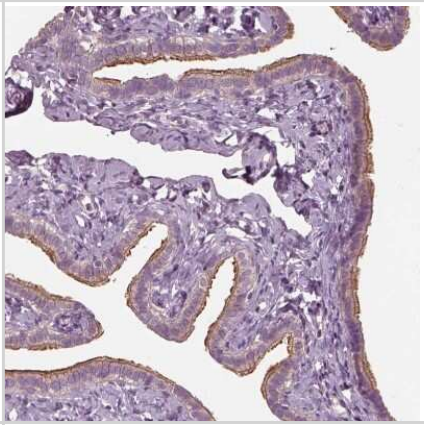
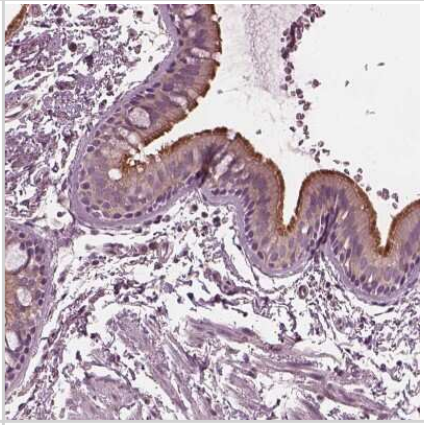
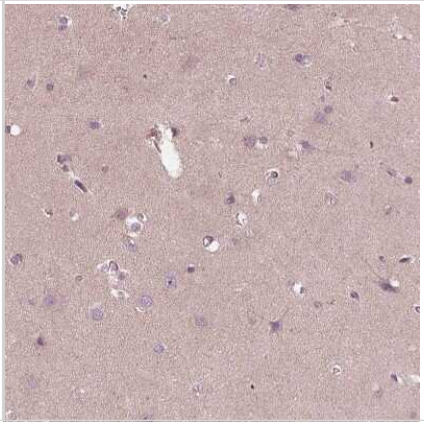
CCDC114 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

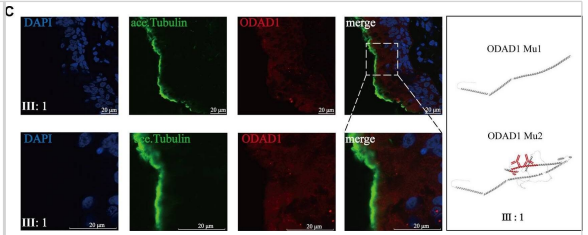
Product Description	
Description	Novus Biologicals Rabbit CCDC114 Antibody - BSA Free (NBP1-93863) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-CCDC114 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	93233
Gene Symbol	ODAD1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in (PMID: 25192045).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: SKDDQHLLQEQQQKVLQQRMDKVHSEAERLEARFQDVRGQLEKLKADIQLLF TKAHCDSSMIDDLLGVKTSMGDRDMGLFLSLIEKRLVE

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot Reactivity reported in (PMID: 25192045), Immunohistochemistry 1:5000 - 1:10000, Immunocytochemistry/ Immunofluorescence Reactivity reported in (PMID: 25192045), Immunoprecipitation Reactivity reported in (PMID: 25192045), Immunohistochemistry-Paraffin 1:5000 - 1:10000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

Immunohistochemistry-Paraffin: CCDC114 Antibody [NBP1-93863] - Staining of human fallopian tube shows strong positivity in cilia in glandular cells.	
Immunohistochemistry-Paraffin: CCDC114 Antibody [NBP1-93863] - Staining of human bronchus shows strong positivity in cilia in respiratory epithelial cells.	
Immunohistochemistry-Paraffin: CCDC114 Antibody [NBP1-93863] - Staining of human cerebral cortex shows no positivity in neurons as expected.	

The ODAD1 mutation (c.71-2A > C; c.598-2A > C) led to the absence of wild-type ODAD1 and the defects of the outer dynein arm in ciliary axonemes and caused a decrease in ciliary beat frequency. (A) Diagram of ODAD1 demonstrating the antigenic site of the antibody used (red box) and the location of the mutation (arrow) in the patient. Yellow boxes represent predicted coiled-coil domains, and blue boxes represent disordered domains. (B) In control individuals, ODAD1 was localized along the length of the axoneme in ciliated cells. (C) In patient □:1, the expression of ODAD1 was significantly low. Green, acetylated-α-tubulin; red, ODAD1; blue, DAPI. Scale bar = 20 μm. (D) Ultrastructure of the ciliary axonemes of the patient and control individuals was analyzed via TEM; defects in the ODA of ciliary axonemes were observed in the patient. While many ciliary cross-sections did not show ODA, some sections exhibited ODAs. The white asterisks indicate the structure of ODAs (scale bar = 100 nm). (E) CBF is significantly lower in the patient than in control individuals (***, p < 0.001). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/38028630), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Zhou N, Liang W, Zhang Y et Al. ODAD1 variants resulting from splice-site mutations retain partial function and cause primary ciliary dyskinesia with outer dynein arm defects Front Genet 2023-10-31 [PMID: 38028630]

Hjeij R, Onoufriadis A, Watson CM et al. CCDC151 Mutations Cause Primary Ciliary Dyskinesia by Disruption of the Outer Dynein Arm Docking Complex Formation. Am J Hum Genet 2014-09-04 [PMID: 25192045] (IP, ICC/IF, WB, Mouse)

Onoufriadis A, Paff T, Antony D et al. Splice-Site Mutations in the Axonemal Outer Dynein Arm Docking Complex Gene CCDC114 Cause Primary Ciliary Dyskinesia. Am J Hum Genet 2013-01-10 [PMID: 23261303]

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Products Related to NBP1-93863

NBP1-93863PEP	CCDC114 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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