

Product Datasheet

CEP290 Antibody - BSA Free NB100-86991

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-86991

CEP290 Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	290 kDa

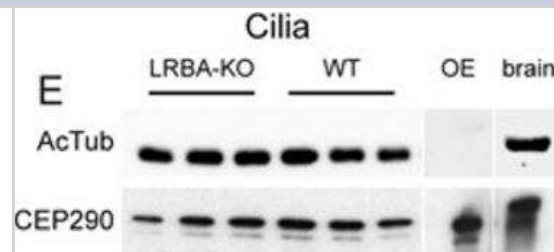
Product Description	
Description	Novus Biologicals Rabbit CEP290 Antibody - BSA Free (NB100-86991) is a polyclonal antibody validated for use in WB, ICC/IF and IP. Anti-CEP290 Antibody: Cited in 11 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	80184
Gene Symbol	CEP290
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported from a verified customer review.
Immunogen	The immunogen recognized by this antibody maps to a region between residue 2429 and 2479 of human centrosomal protein 290kDa using the numbering given in entry NP_079390.3 (GeneID 80184).

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunocytochemistry/ Immunofluorescence 1:250-1:1000, Immunoprecipitation 2-5 ug/mg lysate
Application Notes	ICC/IF (PMID: 21524666). CEP290 antibody validated for WB from a verified customer review. Formaldehyde fixation is recommended. Permeabilization with Triton-X 100 is recommended for formaldehyde-fixed cells.

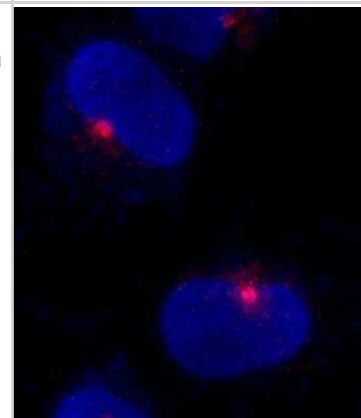


Images

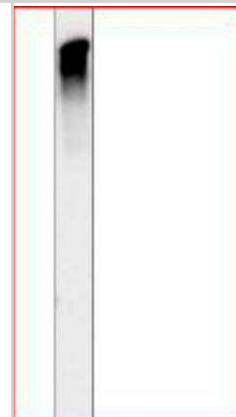
Western Blot: CEP290 Antibody [NB100-86991] - Representative examples of immunoblot images of purified olfactory cilia. Three distinct cilia preparations each from LRBA-KO and WT mice (age, 4 weeks) were blotted in parallel (10 ug protein each), along with an OE and a brain sample (50 ug protein each), all shown at the same exposure. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-017-08543-4>) licensed under a CC-BY license.



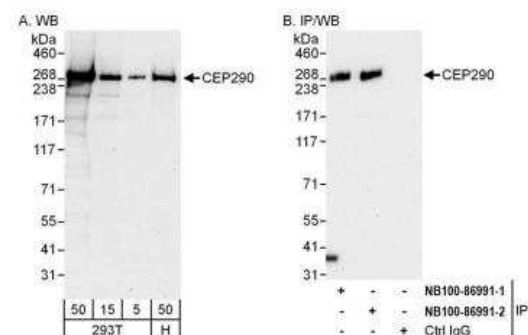
Immunocytochemistry/Immunofluorescence: CEP290 Antibody [NB100-86991] - NBF-fixed asynchronous HeLa cells. Antibody used at a dilution of 1:500.



Western Blot: CEP290 Antibody [NB100-86991] - Species: Mouse, Cell line: Brain homogenate, Primary antibody dilution: 1:400. Band detected at 300KDa. This image has been provided by Manfred W. Kilimann, MD, PhD, Professor in Molecular Cell Biology, Uppsala University.



Western Blot: CEP290 Antibody [NB100-86991] - Detection of human CEP290 by western blot and immunoprecipitation. Samples: Whole cell lysate from HeLa (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded) and HEK293T (T; 50 ug) cells. Antibodies: Affinity purified rabbit anti-CEP290 antibody NB100-86991 used for WB at 0.1 ug/ml (A) and 1 ug/ml (B) and used for IP at 3 ug/mg lysate. Detection: Chemiluminescence with exposure times of 30 seconds (A) and 10 second (B).



Publications

Matsuo K, Nakajima Y, Shigeta M et al. Focal adhesion-related non-ciliary functions of CEP290 PLoS ONE 2025-07-09 [PMID: 40632733]

Short K, Lao J, Lam R et al. Disrupted glucocorticoid receptor cell signalling causes a ciliogenesis defect in the fetal mouse renal tubule EMBO Reports 2025-04-17 [PMID: 40247090]

Julio C. Corral-Serrano, Ideke J. C. Lamers, Jeroen van Reeuwijk, Lonneke Duijkers, Anita D. M. Hoogendoorn, Adem Yildirim, Nikoleta Argyrou, Renate A. A. Ruigrok, Stef J. F. Letteboer, Rossano Butcher, Max D. van Essen, Sanae Sakami, Sylvia E. C. van Beersum, Krzysztof Palczewski, Michael E. Cheetham, Qin Liu, Karsten Boldt, Uwe Wolfrum, Marius Ueffing, Alejandro Garanto, Ronald Roepman, Rob W. J. Collin PCARE and WASF3 regulate ciliary F-actin assembly that is required for the initiation of photoreceptor outer segment disk formation Proceedings of the National Academy of Sciences of the United States of America 2020-05-05 [PMID: 32312818]

Matsuo K, Nakajima Y, Shigeta M et al. Ciliary protein CEP290 regulates focal adhesion via microtubule system in non-ciliated cells1 bioRxiv 2023-04-03

Speight P, Rozycki M, Venugopal S et al. Myocardin-related transcription factor and serum response factor regulate cilium turnover by both transcriptional and local mechanisms iScience 2021-07-01 [PMID: 34278253] (WB, Human, Mouse)

AON-mediated Exon Skipping Restores Ciliation in Fibroblasts Harboring the Common Leber Congenital Amaurosis CEP290 Mutation Gerard, X, Perrault Mol Ther Nucleic Acids [PMID: 23344081] (WB, Human)

Dulla K, Aguila M, Lane A et al. Splice-Modulating Oligonucleotide QR-110 Restores CEP290 mRNA and Function in Human c.2991 and 1655 A to G LCA10 Models Mol Ther Nucleic Acids 2018-07-23 [PMID: 30114557] (WB, Mouse)

Barny I, Perrault I, Michel C et al. Basal exon skipping and nonsense-associated altered splicing allows bypassing complete CEP290 loss-of-function in individuals with unusually mild retinal disease. Hum Mol Genet 2018-05-16 [PMID: 29771326] (Human)

Kurtenbach S, Giebl A, Stromberg S et al. The BEACH Protein LRBA Promotes the Localization of the Heterotrimeric G-protein Golf to Olfactory Cilia Sci Rep 2017-08-16 [PMID: 28814779] (WB, Mouse)

Alby C, Piquand K, Huber C et al. Mutations in KIAA0586 Cause Lethal Ciliopathies Ranging from a Hydrolethalmus Phenotype to Short-Rib Polydactyly Syndrome. Am J Hum Genet 2015-08-06 [PMID: 26166481] (Human)

Slaats GG, Saldivar JC, Bacal J et al. DNA replication stress underlies renal phenotypes in CEP290-associated Joubert syndrome. J. Clin. Invest. 2015-08-24 [PMID: 26301811] (WB, Human)

.Bangs FK, Schrode N, Hadjantonakis AK, Anderson KV. Lineage specificity of primary cilia in the mouse embryo. Nat Cell Biol 2015-02-01 [PMID: 25599390] (ICC/IF, Mouse)

More publications at <http://www.novusbio.com/NB100-86991>





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Products Related to NB100-86991

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

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