

Product Datasheet

CRX/CORD2 Antibody (4G11) - Azide and BSA Free H00001406-M02

Unit Size: 0.1 mg

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

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H00001406-M02

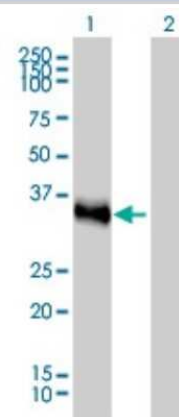
CRX/CORD2 Antibody (4G11) - Azide and BSA Free

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	4G11
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	1406
Gene Symbol	CRX
Species	Human, Mouse, Bovine, Fish
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 25392503). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Specificity/Sensitivity	CRX - cone-rod homeobox
Immunogen	CRX (NP_000545, 1 a.a. ~ 95 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MMAYMNPGRPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTSRQLE ELEALFAKTQYPDVYAREEEVALKINLPESRVQVWFKNRRRAKCR
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:500, Flow Cytometry, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Chromatin Immunoprecipitation (ChIP)
Application Notes	Antibody reactivity against cell lysate, transfected lysate and recombinant protein for WB. It has been used for ELISA. ChIP usage reported in scientific literature (PMID 25392503). ICC/IF usage reported in scientific literature (PMID 26563826).

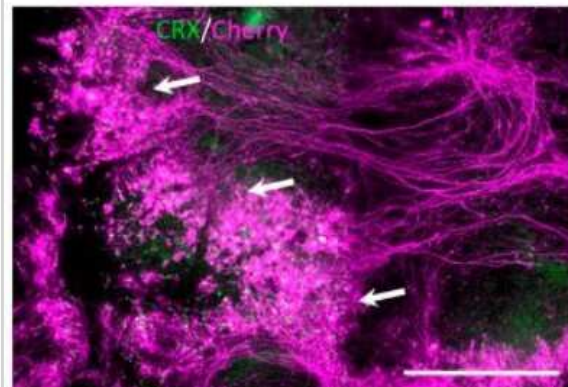


Images

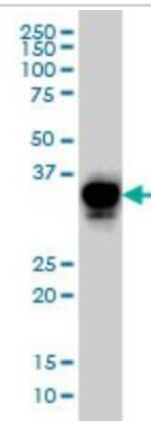
Western Blot: CRX/CORD2 Antibody (4G11) [H00001406-M02] - Analysis of CRX expression in transfected 293T cell line by CRX monoclonal antibody (M02), clone 4G11. Lane 1: CRX transfected lysate (32 KDa). Lane 2: Non-transfected lysate.



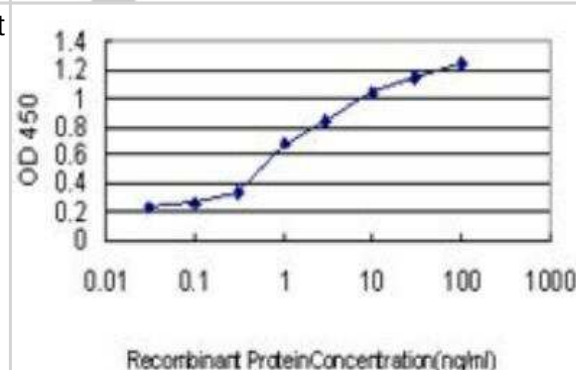
Immunocytochemistry/Immunofluorescence: CRX/CORD2 Antibody (4G11) [H00001406-M02] - Retinal development is recapitulated in differentiating stem cells. Immunostaining of day 49 cultures shows remnants of retinal organization. CRX+ photoreceptor progenitors in green and mCherry+ RGCs in magenta. CRX+ cells - white arrows - appear to segregate from mCherry+ axons, suggesting division between the outer nuclear layer and the nerve fiber layer. Scale bar=500µm. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/srep16595>), licensed under a CC-BY license.



Western Blot: CRX/CORD2 Antibody (4G11) [H00001406-M02] - CRX monoclonal antibody (M02), clone 4G11 Analysis of CRX expression in IMR-32.



ELISA: CRX/CORD2 Antibody (4G11) [H00001406-M02] - Detection limit for recombinant GST tagged CRX is approximately 0.03ng/ml as a capture antibody.



Publications

M Langouët, C Jolicoeur, A Javed, P Mattar, MD Gearhart, SP Daiger, M Bertelsen, L Tranebjærg, ND Rendtorff, K Grønskov, C Jespersgaa, R Chen, Z Sun, H Li, N Alirezaie, J Majewski, VJ Bardwell, R Sui, RK Koenekoop, M Cayouette Mutations in BCOR, a co-repressor of CRX/OTX2, are associated with early-onset retinal degeneration Science Advances, 2022-09-07;8(36):eabh2868. 2022-09-07 [PMID: 36070393]

Pierre Mattar, Milanka Stevanovic, Ivana Nad, Michel Cayouette Casz1 controls higher-order nuclear organization in rod photoreceptors Proceedings of the National Academy of Sciences of the United States of America 2018-08-21 [PMID: 30072429]

Too LK, Shen W, Mammo Z et al. SURGICAL RETINAL EXPLANTS AS A SOURCE OF RETINAL PROGENITOR CELLS Retina 2021-09-01 [PMID: 33560780] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence)

Dilip R, Masaki I, Yoriko T et al. Evaluation of photoreceptor-directed fibroblasts derived from retinitis pigmentosa patients with defects in the EYS gene: a possible cost-effective cellular model for mechanism-oriented drug. Stem Cell Res Ther. 2022-04-11 [PMID: 35410372]

Xiaoming Z, Bo-Wen Z, Lue X et al. MLL5 is involved in retinal photoreceptor maturation through facilitating CRX-mediated photoreceptor gene transactivation. iScience. 2022-04-15 [PMID: 35359806]

Hunghao C, Ivan R, S B et al. Pigment epithelium-derived factor engineered to increase glycosaminoglycan affinity while maintaining bioactivity. Biochem Biophys Res Commun. 2022-03-17 [PMID: 35334413]

Hannah D, Julia M, Morgane B et al. Differentiation Protocol for 3D Retinal Organoids, Immunostaining and Signal Quantitation. Curr Protoc Stem Cell Biol. 2020-09-21 [PMID: 32956559]

Chichagova V, Dorgau B, Felemban M et al. Differentiation of Retinal Organoids from Human Pluripotent Stem Cells. Curr Protoc Stem Cell Biol. 2019-09-15 [PMID: 31479596]

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Pin L, Thanh H, Clayton S et al. Gene regulatory networks controlling temporal patterning, neurogenesis, and cell-fate specification in mammalian retina. Cell Rep. 2021-11-16 [PMID: 34788628]

Mei-Ling G, Xin-Lan L, Fang H et al. Patient-Specific Retinal Organoids Recapitulate Disease Features of Late-Onset Retinitis Pigmentosa. Front Cell Dev Biol. 2020-03-06 [PMID: 32211407]

Garita-Hernandez M, Routet F, Guibbal L et al. AAV-Mediated Gene Delivery to 3D Retinal Organoids Derived from Human Induced Pluripotent Stem Cells. Int J Mol Sci. 2020-02-03 [PMID: 32028585]

More publications at <http://www.novusbio.com/H00001406-M02>





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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP1-88059PEP	CRX/CORD2 Recombinant Protein Antigen

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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