

Product Datasheet

KCNJ10 Antibody (1C11) - Azide and BSA Free H00003766-M01

Unit Size: 0.1 mg

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

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H00003766-M01

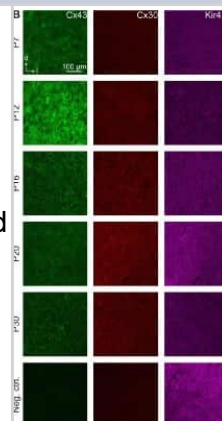
KCNJ10 Antibody (1C11) - Azide and BSA Free

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	1C11
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	3766
Gene Symbol	KCNJ10
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 30542265). Rat reactivity reported in scientific literature (PMID: 19009624).
Specificity/Sensitivity	KCNJ10 - potassium inwardly-rectifying channel, subfamily J, member 10
Immunogen	KCNJ10 (NP_002232, 276 a.a. ~ 379 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. DFELVLILSGTVESTSATCQVRTSYLPEEILWGYEFTPAISLSASGKYIADFSFLD QVVKVASPSGLRDSTVRYGDPEKLEESLREQAEKEGSALSVRISNV
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunoprecipitation, Sandwich ELISA
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunoprecipitation, Sandwich ELISA
Application Notes	Antibody reactivity against recombinant protein with GST tag on ELISA and WB. GST tag alone is used as a negative control. IHC usage reported in scientific literature (PMID: 27458984).

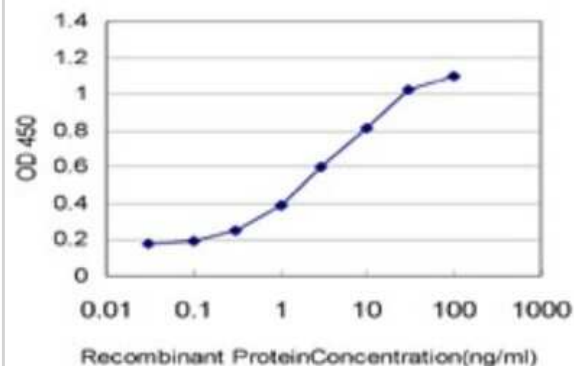


Images

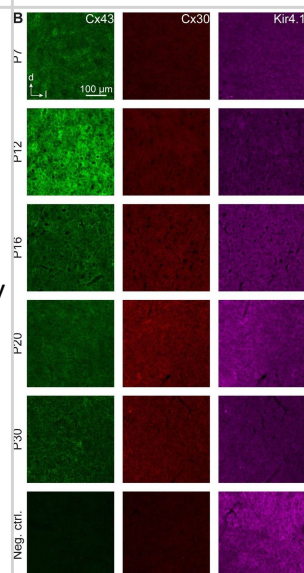
Immunohistochemistry: KCNJ10 Antibody (1C11) [H00003766-M01] - Cx43, Cx30, and KCNJ10 (Kir4.1) (H00003766-M01) immunoreactivity. Immunoreactivity for Cx43 was maximal at P12 and decayed with age, whereas Cx30 levels increased at later developmental stages. Kir4.1 exhibited a moderately elevated level during the second postnatal week. The last row depicts negative controls at P20, in which the primary antibodies for Cx43 and Cx30 were omitted. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30542265/>) licensed under a CC-BY license.



Sandwich ELISA: KCNJ10 Antibody (1C11) [H00003766-M01] - Detection limit for recombinant GST tagged KCNJ10 is approximately 0.03ng/ml as a capture antibody.



Immunohistochemistry: KCNJ10 Antibody (1C11) [H00003766-M01] - Cx43, Cx30, & Kir4.1 immunoreactivity. (A) Schematic drawing of an auditory brainstem slice containing the central part of the inferior colliculus (ICC; A1). The tonotopic organization is indicated by dotted lines (A2). The dotted box denotes the area in which Cx expression was analyzed. (B) Immunoreactivity for Cx43 was maximal at P12 & decayed with age, whereas Cx30 levels increased at later developmental stages. Kir4.1 exhibited a moderately elevated level during the second postnatal week. The last row depicts negative controls at P20, in which the primary antibodies for Cx43 & Cx30 were omitted. (C) Developmental profile of Cx43 (C1), Cx30 (C2), & Kir4.1 expression (C3). The dotted gray lines in (C1,2) denote developmental background fluorescence signals at P7–30 obtained after omitting primary antibodies. n represents the number of analyzed slices & is provided within the diagrams; shown are mean values \pm SEM. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30542265/>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wadle SL, Augustin V, Langer J et al. Anisotropic PANGlial Coupling Reflects Tonotopic Organization in the Inferior Colliculus *Front Cell Neurosci* 2018-11-27 [PMID: 30542265] (IF/IHC, Mouse)

Augustin V, Bold C, Wadle SL et al. Functional anisotropic panglial networks in the lateral superior olive *Glia* 2016-07-26 [PMID: 27458984] (IF/IHC, Mouse)

Moritz CP, Eckstein E, Tenzer S et al. Neuroproteomics in the Auditory Brainstem: Candidate Proteins for Ultrafast and Precise Information Processing *Mol. Cell. Neurosci.* 2014-08-13 [PMID: 25131618]

Singh R, Wangemann P. Free radical stress-mediated loss of Kcnj10 protein expression in stria vascularis contributes to deafness in Pendred syndrome mouse model. *Am J Physiol Renal Physiol*;294(1):F139-48. 2008-01-01 [PMID: 17959752] (WB, Mouse)

Wang XH, Streeter M, Liu YP et al. Identification and characterization of pannexin expression in the mammalian cochlea. *J Comp Neurol*;512(3):336-46. 2009-01-20 [PMID: 19009624] (WB, Mouse, Rat)





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Products Related to H00003766-M01

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)
H00003766-Q01-10ug	Recombinant Human KCNJ10 GST (N-Term) Protein

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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