

Product Datasheet

BARHL1 Antibody - BSA Free NBP1-86513

Unit Size: 0.1 ml

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

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NBP1-86513

BARHL1 Antibody - BSA Free

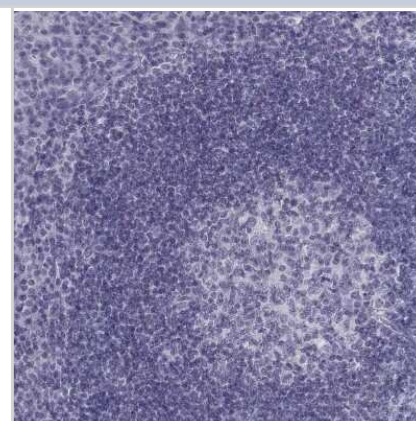
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Host	Rabbit
Gene ID	56751
Gene Symbol	BARHL1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28094018).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LELSRSESSSDCSPASPGRDCLETGTPRPGGASGPGLDSHLQPGQLSAPA QSRTVTSSFLIRDILADCKPLAACAPYSSSGQPAAPEPGGRLAAKAAEDFRDKL DKSGSNASSDSEYKVKEEGDREISSSRDSP

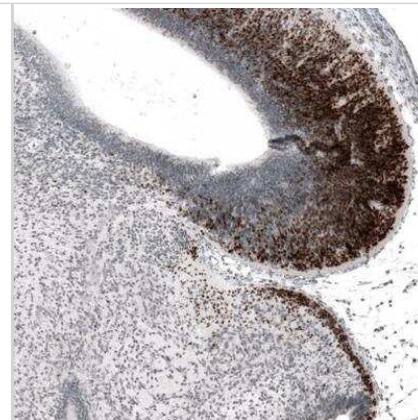
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:200 - 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. Please note that ICC/IF was reported in PMID 31641054, which used a previous lot that is no longer available. The current lot of this antibody is not validated for use in ICC/IF. Please contact technical services if you have any questions.

Images

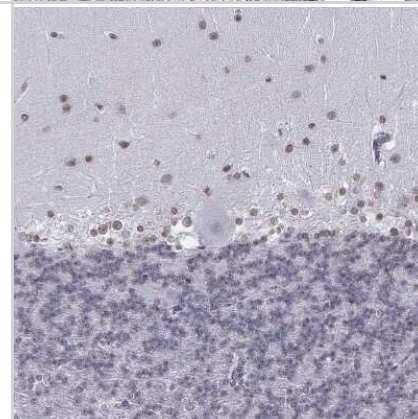
Immunohistochemistry-Paraffin: BARHL1 Antibody [NBP1-86513] - Staining of human tonsil shows no positivity in non-germinal center cells as expected.



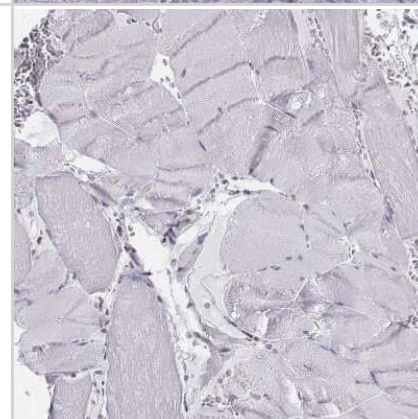
Immunohistochemistry-Paraffin: BARHL1 Antibody [NBP1-86513] - Staining of mouse embryo E14 shows strong nuclear positivity in neuronal cells in developing brain stem and cerebellum.



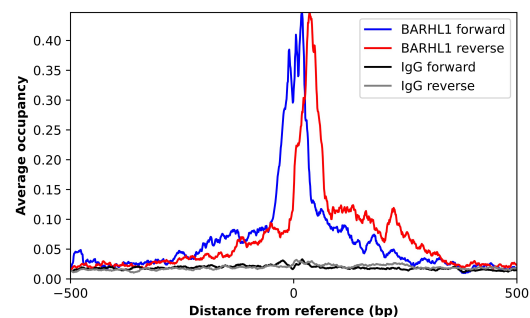
Immunohistochemistry-Paraffin: BARHL1 Antibody [NBP1-86513] - Staining of human cerebellum shows weak nuclear positivity in cells in molecular layer.



Immunohistochemistry-Paraffin: BARHL1 Antibody [NBP1-86513] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



ChIP-Exo-Seq composite graph for Anti-BARHL1 tested in K562 cells. Strand-specific reads (blue: forward, red: reverse) and IgG controls (black: forward, grey: reverse) are plotted against the distance from a composite set of reference binding sites. The antibody exhibits robust target enrichment compared to a non-specific IgG control and precisely reveals its structural organization around the binding site. Data generated by Prof. B. F. Pugh's Lab at Cornell University.



Publications

YH Zhang, M Xu, X Shi, XL Sun, W Mu, H Wu, J Wang, S Li, P Su, L Gong, M He, M Yao, QF Wu Cascade diversification directs generation of neuronal diversity in the hypothalamus *Cell Stem Cell*, 2021-04-21;0(0):. 2021-04-21 [PMID: 33887179]

Zhanna Alekseenko, José M. Dias, Andrew F. Adler, Mariya Kozhevnikova, Josina Anna van Lunteren, Sara Nolbrant, Ashwini Jeggari, Svitlana Vasylovska, Takashi Yoshitake, Jan Kehr, Marie Carlén, Andrey Alexeyenko, Malin Parmar, Johan Ericson Robust derivation of transplantable dopamine neurons from human pluripotent stem cells by timed retinoic acid delivery *Nature Communications* 2022-06-01 [PMID: 35650213]

Gantner C, Cota-Coronado A, Thompson L, Parish C An Optimized Protocol for the Generation of Midbrain Dopamine Neurons under Defined Conditions *STAR Protoc* 2020-10-28 [PMID: 33111103]

Moriarty N, Kauhausen JA, Pavan C et al. Understanding the Influence of Target Acquisition on Survival, Integration, and Phenotypic Maturation of Dopamine Neurons within Stem Cell-Derived Neural Grafts in a Parkinson's Disease Model *The Journal of neuroscience : the official journal of the Society for Neuroscience* 2022-06-22 [PMID: 35610045]

Gantner Cw, De Luzy Ir, Kauhausen Ja et Al. Viral Delivery of GDNF Promotes Functional Integration of Human Stem Cell Grafts in Parkinson's Disease *Cell Stem Cell* 2020-02-10 [PMID: 32059808] (Rat)

de Luzy IR, Niclis JC, Gantner CW et al. Isolation of LMX1a ventral midbrain progenitors improves the safety and predictability of human pluripotent stem cell-derived neural transplants in Parkinsonian Disease *J. Neurosci.* 2019-10-21 [PMID: 31641054] (ICC/IF, Mouse, Rat)

Cardoso T Cell Replacement Therapy for Parkinson's Disease: Potential for Circuitry Repair Dissertation 2018-11-30 (PA, Human)

Cardoso T, Adler AF, Mattsson B et al. Target-specific forebrain projections and appropriate synaptic inputs of hESC-derived dopamine neurons grafted to the midbrain of parkinsonian rats *J Comp Neurol.* 2018-09-01 [PMID: 30007046] (Rat)

Kee N, Volakakis N, Kirkeby A et al. Single-Cell Analysis Reveals a Close Relationship between Differentiating Dopamine and Subthalamic Nucleus Neuronal Lineages *Cell Stem Cell* 2017-01-05 [PMID: 28094018] (IF/IHC, Mouse)





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Products Related to NBP1-86513

NBP1-86513PEP	BARHL1 Recombinant Protein Antigen
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

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