

NGN2 Antibody

Catalog # ASC11571

Product Information

Application	WB, IF, E
Primary Accession	Q9H2A3
Other Accession	NP_076924 , 31077092
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	28621
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	NGN2 antibody can be used for detection of NGN2 by Western blot at 1 - 2 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	63973
Other Names	Neurogenin-2, NGN-2, Class A basic helix-loop-helix protein 8, bHLHa8, Protein atonal homolog 4, NEUROG2, ATOH4, BHLHA8, NGN2
Target/Specificity	NEUROG2; NGN2 antibody is predicted to not cross-react with neurogenin 1.
Reconstitution & Storage	NGN2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	NGN2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NEUROG2
Synonyms	ATOH4, BHLHA8, NGN2
Function	Transcriptional regulator. Involved in neuronal differentiation. Activates transcription by binding to the E box (5'- CANNTG-3').
Cellular Location	Nucleus {ECO:0000255 PROSITE-ProRule:PRU00981}.

Background

NGN2 Antibody: Neurogenin-2 (NGN2) is a neural-specific basic helix-loop-helix (bHLH) transcription factor that can specify a neuronal fate on ectodermal cells and is expressed in neural progenitor cells within the developing central and peripheral nervous systems. NGN2 is thought to work with Nurr1 to play a role in the differentiation and survival of midbrain dopaminergic neurons. It has also been suggested for use in human embryonic neural progenitors as a graft for spinal cord injuries

References

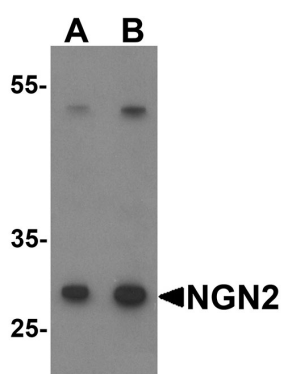
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Fode C, Gradwohl G, Morin X, et al. The bHLH protein NEUROGENIN 2 is a determination factor for epibranchial placode-derived sensory neurons. *Neuron* 1998; 20:483-94.

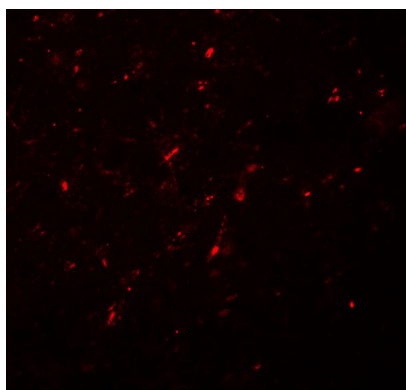
Andersson EK, Irvin DK, Ahlsio J, et al. Ngn2 and Nurr1 act in synergy to induce midbrain dopaminergic neurons from expanded neural stem and progenitor cells. *Exp. Cell. Res.* 2007; 313:1172-80.

Perrin FE, Boniface G, Serguera C, et al. Grafted human embryonic progenitors expressing neurogenin-2 stimulate axonal sprouting and improve motor recovery after severe spinal cord injury. *PLoS One* 2010; 5:e15914.

Images



Western blot analysis of NGN2 in mouse small intestine tissue lysate with NGN2 antibody at (A) 1 and (B) 2 µg/mL.



Immunofluorescence of NGN2 in human brain tissue with NGN2 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.