

**NGN2 Antibody**  
**Catalog # ASC11571****Specification**

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**NGN2 Antibody - Product Information**

Application	WB, IF
Primary Accession	<a href="#">Q9H2A3</a>
Other Accession	<a href="#">NP_076924</a> , <a href="#">31077092</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	30 kDa KDa
Application Notes	NGN2 antibody can be used for detection of NGN2 by Western blot at 1 - 2 µg/mL. For immunofluorescence start at 20 µg/mL.

**NGN2 Antibody - Additional Information**Gene ID **63973****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.

**NGN2 Antibody - 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**

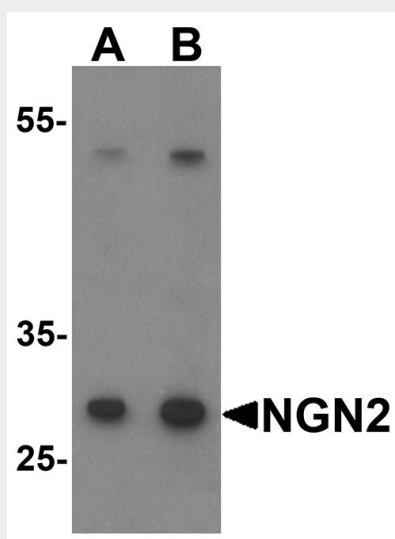
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

**NGN2 Antibody - Protocols**

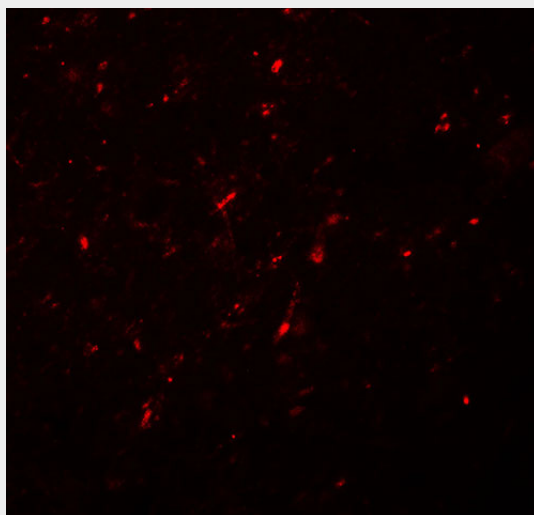
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### NGN2 Antibody - Images



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



Immunofluorescence of NGN2 in human brain tissue with NGN2 antibody at 20  $\mu$ g/mL.

#### NGN2 Antibody - 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

### **NGN2 Antibody - References**

Sommer L, Ma Q, and Anderson DJ. Neurogenins, a novel family of atonal-related bHLH transcription factors, a putative mammalian neuronal determination genes that reveal progenitor cell heterogeneity in the developing CNS and PNS. *Mol. Cell Neurosci.* 1996; 8:221-41.

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.