10320 Camino Santa Fe, Suite G
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# NGN2 Antibody
**Catalog # ASC11571**

## Specification

### NGN2 Antibody - Product Information

| | |
|---|---|
| Application | **WB, IF** |
| Primary Accession | Q9H2A3 |
| Other Accession | NP_076924, 31077092 |
| 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℃ for three months and -20℃, 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}.

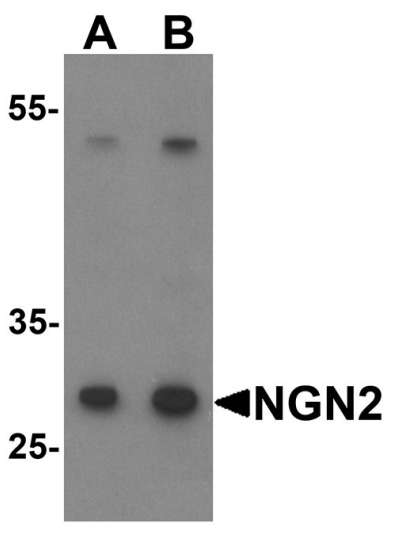
### NGN2 Antibody - Protocols

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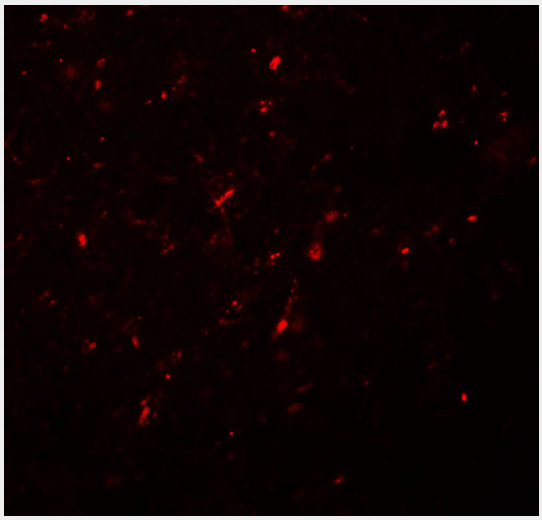
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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 µg/mL.



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