

**Neurogenin1 (NeuroG1) Antibody (N-term) Blocking peptide**  
Synthetic peptide  
Catalog # BP2022a

**Specification**

**Neurogenin1 (NeuroG1) Antibody (N-term)  
Blocking peptide - Product Information**

Primary Accession [Q92886](#)  
Other Accession [NP\\_006152](#)

**Neurogenin1 (NeuroG1) Antibody (N-term)  
Blocking peptide - Additional Information**

**Gene ID** 4762

**Other Names**

Neurogenin-1, NGN-1, Class A basic helix-loop-helix protein 6, bHLHa6, Neurogenic basic-helix-loop-helix protein, Neurogenic differentiation factor 3, NeuroD3, NEUROG1, BHLHA6, NEUROD3, NGN, NGN1

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [<a href=/product/products/AP2022a>AP2022a</a>](#) was selected from the N-term region of human NeuroG1 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Neurogenin1 (NeuroG1) Antibody (N-term)**

**Neurogenin1 (NeuroG1) Antibody (N-term)  
Blocking peptide - Background**

Basic helix-loop-helix (bHLH) proteins are transcription factors involved in determining cell type during development. NeuroG1 is a bHLH protein with dual cell-fate specification roles. It functions during neurogenesis, and it has also been shown to inhibit the differentiation of neural stem cells into astrocytes. NeuroG1 promotes neurogenesis by functioning as a transcriptional activator, yet it inhibits astrocyte differentiation by compartmentalizing the CREB-binding protein transcription complex away from astrocyte differentiation genes and by inhibiting STAT transcription factors essential for gliogenesis.

**Neurogenin1 (NeuroG1) Antibody (N-term)  
Blocking peptide - References**

Tamimi, R.M., et al., Genomics 40(2):355-357 (1997). McCormick, M.B., et al., Mol. Cell. Biol. 16(10):5792-5800 (1996).

**Blocking peptide - Protein Information****Name** NEUROG1**Synonyms** BHLHA6, NEUROD3, NGN, NGN1**Function**

Acts as a transcriptional regulator. Involved in the initiation of neuronal differentiation. Activates transcription by binding to the E box (5'-CANNTG-3'). Associates with chromatin to enhancer regulatory elements in genes encoding key transcriptional regulators of neurogenesis (By similarity).

**Cellular Location**

Nucleus.

**Tissue Location**

Expression restricted to the embryonic nervous system

**Neurogenin1 (NeuroG1) Antibody (N-term)  
Blocking peptide - Protocols**

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

- [Blocking Peptides](#)