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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 AP2022a 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) 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.

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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

Neurogenin1 (NeuroG1) Antibody (N-term) Blocking peptide - Images

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).