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Neurogenin1 (NeuroG1) Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2022a

Specification

Neurogenin1 (NeuroG1) Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q92886
Other Accession	NP_006152
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**25718**
Antigen Region	**31-60**

Neurogenin1 (NeuroG1) Antibody (N-term) - 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
This Neurogenin1 (NeuroG1) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 31-60 amino acids from the N-terminal region of human Neurogenin1 (NeuroG1).

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Neurogenin1 (NeuroG1) Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

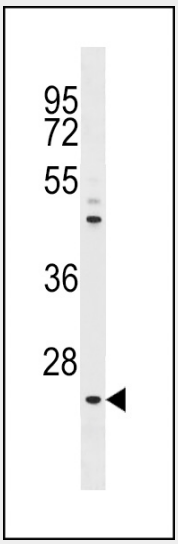
Tissue Location
Expression restricted to the embryonic nervous system

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

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

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



The anti-NeuroG1 N-term Pab (Cat. #AP2022b) is used in Western blot to detect NeuroG1 in A375 cell lysate.

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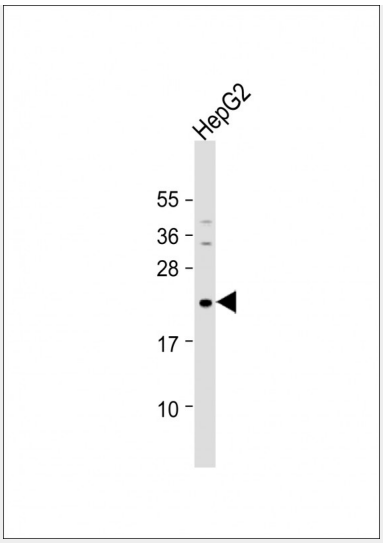

Anti-NeuroG1 Antibody (A46) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 26 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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