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Neurogenin 2 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58092

Specification

Neurogenin 2 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, E**
Primary Accession	Q9H2A3
Reactivity	**Rat, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**30 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human Neurogenin 2**
Epitope Specificity	**101-200/272**
Isotype	**IgG**

Purity
affinity purified by Protein A

Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Nucleus.**
SIMILARITY	**Contains 1 basic helix-loop-helix (bHLH) domain.**
SUBUNIT	**Efficient DNA binding requires dimerization with another bHLH protein.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
Neurogenin 2 is a helix-loop-helix class of transcription factor. Transcription factors with bHLH motifs modulate critical events in the development of the mammalian neocortex. The transition from proliferation to neurogenesis involves a coordinate increase in the activity of proneural bHLH factors, including Neurogenin 2 and a decrease in the activity of Hes and Id factors. bHLH factors have key roles in corticogenesis, affecting the timing of differentiation and the specification of cell fate.

Neurogenin 2 Polyclonal Antibody - Additional Information

Gene ID 63973

Other Names
Neurogenin-2, NGN-2, Class A basic helix-loop-helix protein 8, bHLHa8, Protein atonal homolog 4, NEUROG2, ATOH4, BHLHA8, NGN2

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \><span class

="dilution_IHC-F">IHC-F~~N/A<br \><span class
="dilution_IF">IF~~1:50~200<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

Neurogenin 2 Polyclonal 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').

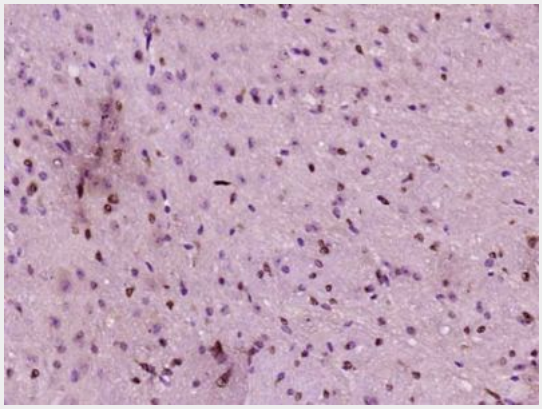
Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

Neurogenin 2 Polyclonal 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 Cytomety
- Cell Culture

Neurogenin 2 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Neurogenin 2) Polyclonal Antibody, Unconjugated (bs-3692R) at 1:400 overnight at 4°C, followed

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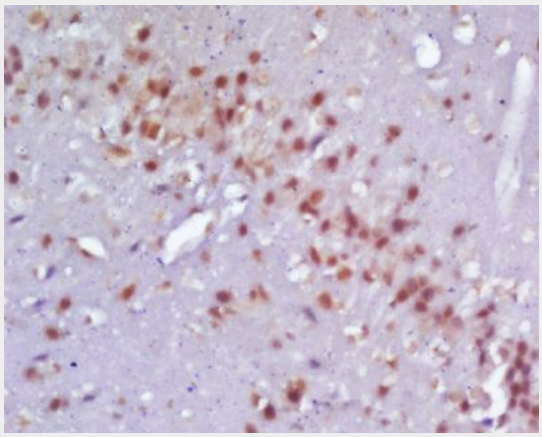
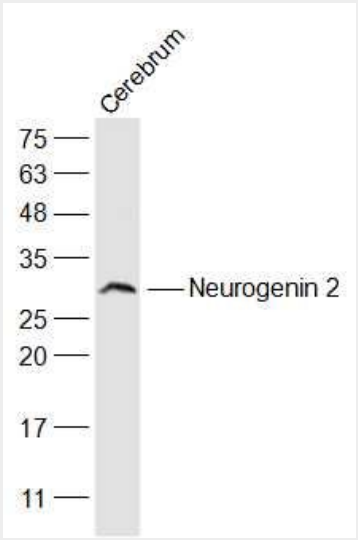
by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-Neurogenin 2 Polyclonal Antibody, Unconjugated(bs-3692R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Sample:
Cerebrum (Mouse) Lysate at 40 ug
Primary: Anti-Neurogenin 2 (bs-3692R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 30 kD
Observed band size: 30 kD