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Neurogenin 2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58092

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q9H2A3
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	28621
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.

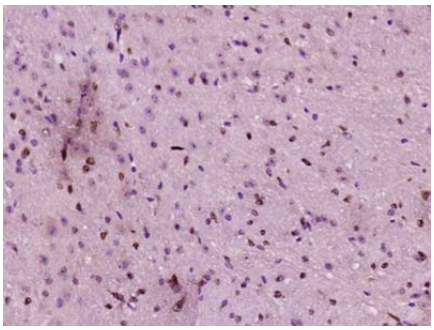
Additional Information

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=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C 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 °C.

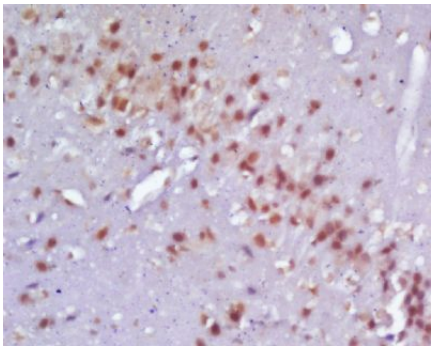
Protein Information

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}.

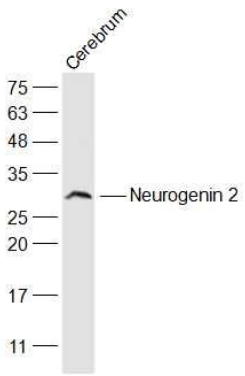
Images



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 (AP58092) at 1:400 overnight at 4°C, followed 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(AP58092) 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 (AP58092) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 30 kD
Observed band size: 30 kD