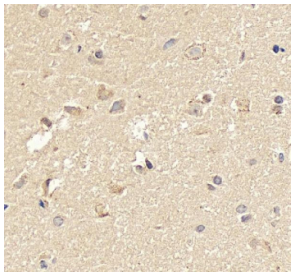
Neurogenin 1 Antibody / NEUROG1 (RQ8928)

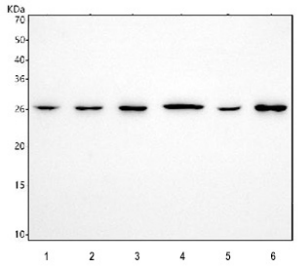
Catalog No.	Formulation	Size
RQ8928	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-2 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q92886
Localization	Nuclear
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml ELISA : 0.1-0.5ug/ml
Limitations	This Neurogenin 1 antibody is available for research use only.



IHC staining of FFPE human brain tissue with Neurogenin 1 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human SH-SY5Y, 2) human U-251, 3) human HepG2, 4) rat brain, 5) rat C6 and 6) mouse brain tissue lysate with Neurogenin 1 antibody. Predicted molecular weight ~26 kDa.

Description

NEUROG1 (Neurogenin 1) is a basic helix-loop-helix (bHLH) transcription factor that plays a key role in neurogenesis. It functions as a proneural gene, promoting the differentiation of neural progenitor cells into neurons by activating downstream transcriptional programs. NEUROG1 is expressed during early development in regions of the central and peripheral nervous systems where it contributes to neuronal specification and lineage determination. A NEUROG1 antibody is widely used to study developmental neurobiology and transcriptional regulation in neural tissues.

As a member of the neurogenin family, NEUROG1 influences the balance between proliferation and differentiation of progenitor cells. It activates pro-neural genes while repressing alternate cell fates, thereby guiding stem cells toward a neuronal identity. In addition, NEUROG1 interacts with other transcription factors and signaling pathways, including Notch signaling, to ensure precise control of neuronal patterning. Using a NEUROG1 antibody allows researchers to monitor expression patterns and regulatory interactions in neural tissue and stem cell models.

Dysregulation of NEUROG1 has been associated with impaired neural development and has implications for neurodevelopmental disorders. Its expression is also studied in cancer biology, particularly in tumors of neural origin, where abnormal transcription factor activity may contribute to tumorigenesis. Employing a NEUROG1 antibody provides a reliable tool to study its role in both normal development and disease-related contexts.

NSJ Bioreagents provides a high-quality NEUROG1 antibody validated for applications such as immunohistochemistry, western blot, and immunofluorescence. Choosing a NEUROG1 antibody from NSJ Bioreagents ensures consistent results and reproducibility in studies of neuronal differentiation and transcriptional regulation.

Application Notes

Optimal dilution of the Neurogenin 1 antibody should be determined by the researcher.

Immunogen

An amino acid sequence from the N-terminal region of the human protein was used as the immunogen for the Neurogenin 1 antibody.

Storage

After reconstitution, the Neurogenin 1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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