

Nur für Forschungszwecke

NEUROD1 Polyklonaler Antikörper

Katalog-Nr.: 12081-1-AP

Vorgestelltes Produkt

12 Publikationen



Allgemeine Informationen

Katalog-Nr.: 12081-1-AP	GenBank-Zugangsnummer: BC009046	Reinigungsmethode: Antigen-Affinitätsreinigung
Größe: 150ul, Konzentration: 550 µg/ml von Nanodrop;	GeneID (NCBI): 4760	Empfohlene Verdünnungen: WB 1:500-1:1000
Wirt: Kaninchen	Vollständiger Name: neurogenic differentiation 1	IP 0.5-4.0 µg für IP und 1:200-1:1000 für WB
Isotyp: IgG	Berechnete Masse: 356 aa, 40 kDa	IHC 1:50-1:500
Immunogen Katalognummer: AG2713	Beobachtete Masse: 50 kDa	IF 1:50-1:500

Anwendungen

Geprüfte Anwendungen:

IF, IHC, IP, WB, ELISA

In Publikationen genannte Anwendungen:

IF, IHC, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Human, Maus, Ratte

Positivkontrollen:

WB: Y79-Zellen, Maus-Pankreasgewebe, Ratten-Pankreasgewebe

IP: Y79-Zellen,

IHC: Rattenhirngewebe, humanes Pankreaskarzinomgewebe, Maushirngewebe

IF: Maushirngewebe,

Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Hintergrundinformationen

NeuroD is a member of the basic helix-loop-helix (bHLH) family of transcription factors. The basic helix-loop-helix (bHLH) proteins are transcription factors that are required for several aspects of development, including cell type determination, terminal differentiation and sex determination. Members of the myogenic determination family, MyoD, myf5, myogenin and MRF4, all have bHLH domains. These proteins function by forming heterodimers with E-proteins and binding to the canonical E-box sequence CANNTG. Neuro D is expressed transiently in a subset of neurons in the central and peripheral nervous systems at the time of their terminal differentiation into mature neurons. Moreover, ectopic expression of Neuro D in Xenopus embryos induces premature differentiation of neuronal precursors and Neuro D can convert presumptive epidermal cells into neurons. The lack of NeuroD in the brain results in severe defects in development. Human mutations have been linked to a number of types of diabetes including type I diabetes mellitus and maturity-onset diabetes of the young. The calculated molecular weight of NEUROD1 is 39 kDa, but the modified NEUROD1 protein is about 45-50 kDa.

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Gwyneth M Welch	36170369	Sci Adv	IF
Jianwei Xie	33033581	Comput Struct Biotechnol J	IHC, WB
Kaitlin Ching	32931487	PLoS Biol	IF

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

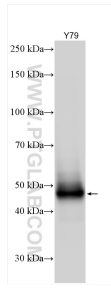
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

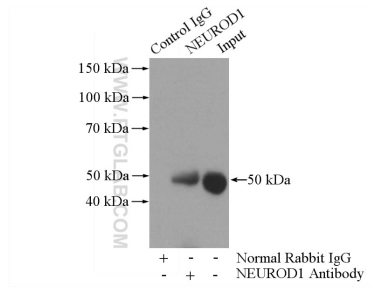
E: proteintech@ptglab.com
W: ptglab.com

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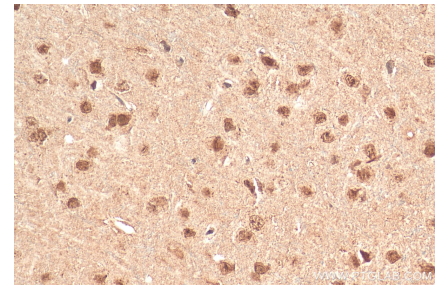
Ausgewählte Validierungsdaten



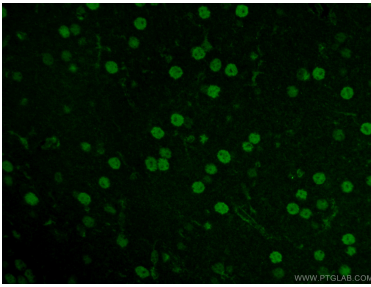
Various lysates were subjected to SDS PAGE followed by western blot with 12081-1-AP (NEUROD1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP Result of anti-NEUROD1 (IP:12081-1-AP, 3ug; Detection:12081-1-AP 1:200) with Y79 cells lysate 2000ug.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 12081-1-AP (NEUROD1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 12081-1-AP (NEUROD1 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).