

NELL2 Rabbit pAb

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Catalog # AP54664

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q99435
Reactivity	Rat, Mouse
Predicted	Pig, Dog, Human, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91346
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NELL2/NRP2
Epitope Specificity	201-300/816
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	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a glycoprotein containing several von Willebrand factor C domains and epidermal growth factor (EGF)-like domains. The encoded protein acts as a homotrimer and is found in the cytoplasm. Several variants encoding a few different isoforms exist, and at least one isoform appears to be a secreted protein. Studies in mouse suggest that this protein plays a role in neural cell growth and differentiation as well as in oncogenesis. [provided by RefSeq, Feb 2009]

Additional Information

Gene ID	4753
Other Names	Protein kinase C-binding protein NELL2, NEL-like protein 2, Nel-related protein 2, NELL2 (HGNC:7751), NRP2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

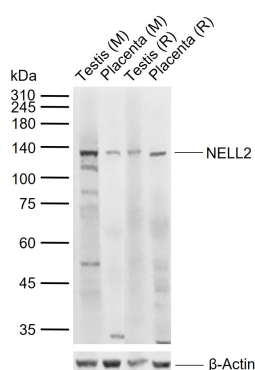
Protein Information

Name	NELL2 (HGNC:7751)
Synonyms	NRP2
Function	Plays multiple roles in neural tissues, regulates neuronal proliferation, survival, differentiation, polarization, as well as axon guidance and synaptic functions. Plays an important role in axon development during neuronal differentiation through the MAPK intracellular signaling pathway (By similarity). Via binding to its receptor ROBO3, plays a role in axon guidance, functioning as a repulsive axon guidance cue that contributes to commissural axon guidance to the midline (PubMed: 32198364). Required for neuron survival through the modulation of MAPK signaling pathways too. Involved in the regulation of hypothalamic GNRH secretion and the control of puberty (By similarity).
Cellular Location	Secreted {ECO:0000250 UniProtKB:Q62918}.

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Images



Sample:

Lane 1: Mouse Testis tissue lysates

Lane 2: Mouse Placenta tissue lysates

Lane 3: Rat Testis tissue lysates

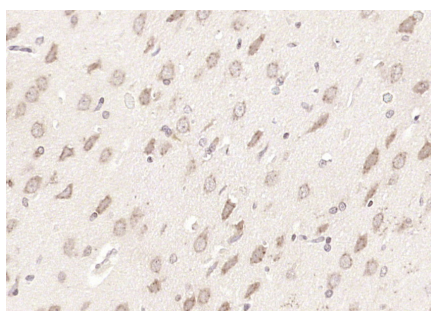
Lane 4: Rat Placenta tissue lysates

Primary: Anti-NELL2 (AP54664) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 89 kDa

Observed band size: 135 kDa



Paraformaldehyde-fixed, paraffin embedded (rat 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 (NELL2) Polyclonal Antibody, Unconjugated (AP54664) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.