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NEURL Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8737c

Product Information

Application	WB, IHC-P, E
Primary Accession	O76050
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB21920
Calculated MW	61860
Antigen Region	158-186

Additional Information

Gene ID	9148
Other Names	E3 ubiquitin-protein ligase NEURL1, 632-, Neuralized-like protein 1A, h-neu, h-neuralized 1, RING finger protein 67, NEURL1, NEURL, NEURL1A, RNF67
Target/Specificity	This NEURL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 158-186 amino acids from the Central region of human NEURL.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	NEURL Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NEURL1
Synonyms	NEURL, NEURL1A, RNF67
Function	Plays a role in hippocampal-dependent synaptic plasticity, learning and memory. Involved in the formation of spines and functional synaptic contacts

	by modulating the translational activity of the cytoplasmic polyadenylation element-binding protein CPEB3. Promotes ubiquitination of CPEB3, and hence induces CPEB3-dependent mRNA translation activation of glutamate receptor GRIA1 and GRIA2. Can function as an E3 ubiquitin-protein ligase to activate monoubiquitination of JAG1 (in vitro), thereby regulating the Notch pathway. Acts as a tumor suppressor; inhibits malignant cell transformation of medulloblastoma (MB) cells by inhibiting the Notch signaling pathway.
Cellular Location	Cytoplasm, perinuclear region. Cell membrane; Peripheral membrane protein Perikaryon. Cell projection, dendrite Postsynaptic density. Note=Localized in the cell bodies of the pyramidal neurons and distributed along their apical dendrites Colocalized with PSD95 in postsynaptic sites. Colocalized with CPEB3 at apical dendrites of CA1 neurons (By similarity). Colocalized with JAG1 at the cell surface.
Tissue Location	Expressed in brain, testis, pituitary gland, pancreas and bone marrow. Also poorly expressed in malignant astrocytomas and several neuroectodermal tumor cell lines. Weakly expressed in medulloblastoma (MB) compared with normal cerebellar tissues.

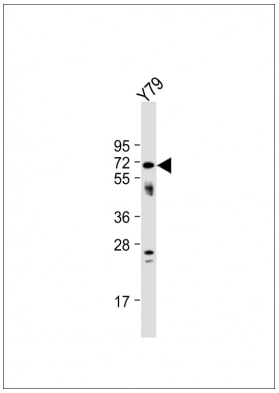
Background

NEURL is involved in the determination of cell fate in the neurogenic region of the embryo and plays a role in the determination of cell fate in the central nervous system. NEURL may act as a tumor suppressor whose inactivation could be associated with malignant progression of astrocytic tumors.

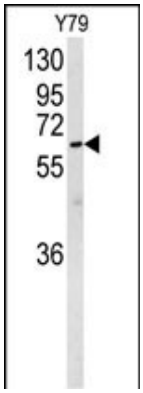
References

Kile,B.T., et.al., Trends Biochem. Sci. 27 (5), 235-241 (2002)

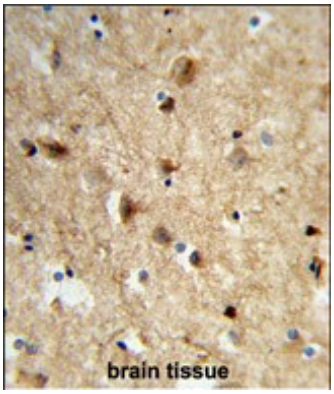
Images



Anti-NEURL Antibody (Center) at 1:1000 dilution + Y79 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 62 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of NEURL Antibody (Center) (Cat. #AP8737c) in Y79 cell line lysates (35ug/lane). NEURL (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with NEURL Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.