

NEURL Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8737c**Specification**

NEURL Antibody (Center) - Product Information

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

NEURL Antibody (Center) - 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~~1:50~100

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.

NEURL Antibody (Center) - 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

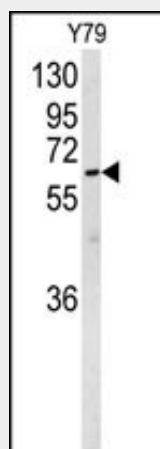
Expressed in brain, testis, pituitary gland, pancreas and bone marrow. Also poorly expressed in malignant astrocytomas and several neuroectodermal tumor cell lines. Weakly expressed in medulloblastoma (MB) compared with normal cerebellar tissues.

NEURL Antibody (Center) - Protocols

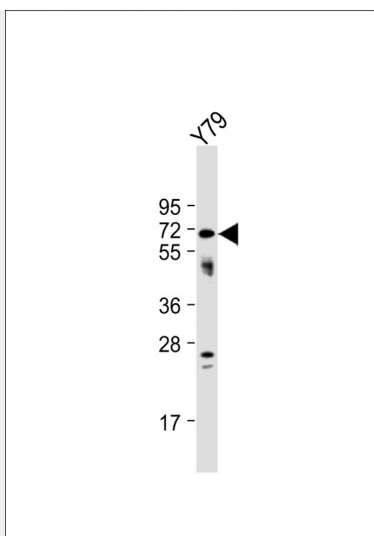
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

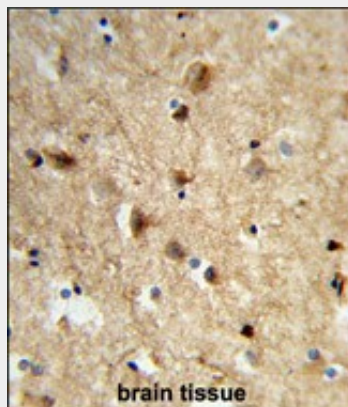
NEURL Antibody (Center) - Images



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



Anti-NEURL Antibody (Center) at 1:1000 dilution + Y79 whole cell lysate Lysates/proteins at 20 μ g 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.



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.

NEURL Antibody (Center) - 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.

NEURL Antibody (Center) - References

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