10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Neuralized-1 Polyclonal Antibody

Catalog # AP71235

## Product Information

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| **Application** | WB, IHC-P, IF, ICC, E |
| **Primary Accession** | O76050 |
| **Reactivity** | Human, Rat, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 61860 |

## Additional Information

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| **Gene ID** | 9148 |
| **Other Names** | NEURL; NEURL1; NEURL1A; RNF67; Neuralized-like protein 1A; h-neu; h-neuralized 1; RING finger protein 67 |
| **Dilution** | WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A |
| **Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| **Storage Conditions** | -20℃ |

## Protein Information

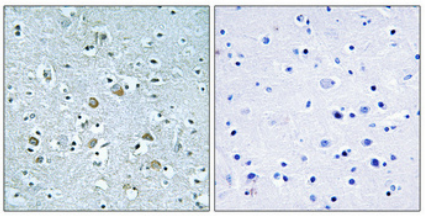
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| **Name** | NEURL1 |
| **Synonyms** | NEURL, NEURL1A, RNF67 |
| **Function** | Plays a role in hippocampal-dependent synaptic plasticity, learning and memory. Involved in the formation of spines and functional synaptic contacts by modulating the translational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

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| | 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

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.

## Images



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.

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