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# NRXN1 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21335a

## Product Information

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| **Application** | WB, E |
| **Primary Accession** | P58400 |
| **Reactivity** | Human, Rat, Mouse |
| **Host** | Rabbit |
| **Clonality** | polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB52794 |
| **Calculated MW** | 50424 |

## Additional Information

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| **Gene ID** | 9378 |
| **Other Names** | Neurexin-1-beta, Neurexin I-beta, NRXN1 |
| **Target/Specificity** | This NRXN1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 77-110 amino acids from the N-terminal region of human NRXN1. |
| **Dilution** | WB~~1:2000 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** | NRXN1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | NRXN1 ( HGNC:8008) |
| **Function** | Neuronal cell surface protein involved in cell recognition and cell adhesion by forming intracellular junctions through binding to neuroligins (By similarity). Plays a role in formation of synaptic junctions (By similarity). Functions as part of a trans-synaptic complex by binding to cerebellins and postsynaptic GRID1. This interaction helps regulate the activity of NMDA and AMPA receptors at hippocampal synapses without affecting synapse |

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| | formation. NRXN1B-CBLN2- GRID1 complex transduce presynaptic signals into postsynaptic NMDAR response (By similarity). |
| **Cellular Location** | Presynaptic cell membrane {ECO:0000250\|UniProtKB:P0DI97}; Single-pass type I membrane protein |

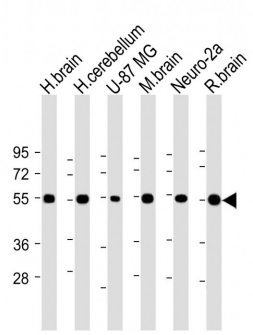
## Background

Neuronal cell surface protein that may be involved in cell recognition and cell adhesion by forming intracellular junctions through binding to neuroligins. May play a role in formation or maintenance of synaptic junctions. May mediate intracellular signaling. May play a role in angiogenesis (By similarity).

## References

Kleiderlein J.J.,et al.Hum. Genet. 103:666-673(1998).
Hillier L.W.,et al.Nature 434:724-731(2005).
Chen X.,et al.Nat. Struct. Mol. Biol. 15:50-56(2008).

## Images




All lanes : Anti-NRXN1 Antibody (N-term) at 1:2000 dilution Lane 1: Human brain lysate Lane 2: Human cerebellum lysate Lane 3: U-87 MG whole cell lysate Lane 4: Mouse brain lysate Lane 5: Neuro-2a whole cell lysate Lane 6: Rat brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDM/TBST.