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anti-Neurexin 2 (NRXN2) (AA 971-1070) antibody (HRP)



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Quantity:	100 μL
Target:	Neurexin 2 (NRXN2)
Binding Specificity:	AA 971-1070
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	HRP
Application:	ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffinembedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human NRXN2
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human,Mouse,Dog,Cow,Sheep,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	Neurexin 2 (NRXN2)
Alternative Name:	Neurexin 2 (NRXN2 Products)

Target Details

Background:

Synonyms: Neurexin 2, Neurexin-2, Neurexin II, Neurexin II alpha, NRXN 2, NRXN-2, NRXN2, NRX2A_HUMAN.

Background: Neurexins comprise a family of neuronal cell surface proteins, which include neurexin I (NRXN1), neurexin II (NRXN2), neurexin III (NRXN3) and Caspr (neurexin IV).

Neurexins I-III are expressed as a and b isoforms. The a isoforms are made of three cassettes, which contain two LNS (Laminin A, Neurexins, Sex hormone-binding)-domains separated by EGF domains, followed by a transmembrane region and a 55 amino acid cytoplasmic C-terminal. The a isoforms bind to neurexophilins at the second LNS site and to the excitatory neurotoxin a-latrotoxin. The b isoforms have only one LNS-domain, bind to neuroligins, and play a role in the formation and remodeling of synapes. Caspr (for Contactin-Associated Protein 1, also designated Paranodin in mouse), contains an extracellular domain similar to the other three neurexins, and binds to the surface glycoprotein Contactin. Caspr and the closely related Caspr2, a mammalian homolog of Drosophila Neurexin IV (Nrx-IV), demarcate distinct subdomains in myelinated axons. Specifically, Caspr exists at the paranodal junctions, while Caspr2 colocalizes with Shaker-like K+ channels in the juxtaparanodal region. Caspr may play a role in the communication of glial cells and neurons during development.

UniProt:

Q9P2S2

Pathways:

Synaptic Membrane

Application Details

Application Notes:

IHC-P 1:200-400

IHC-F 1:100-500

Restrictions:

For Research Use only

Handling

Format:

Liquid

Concentration:

 $1 \mu g/\mu L$

Buffer:

Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and

50 % Glycerol.

Preservative:

ProClin

Precaution of Use:

This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

handled by trained staff only.

Handling

Handling Advice:	Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months