



Rabbit Anti-Neuroigin 1 antibody

SL4212R

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| Product Name: | Neuroigin 1 |
| Chinese Name: | 突触Cell adhesion molecule1抗体 |
| Alias: | NLG 1; KIAA1070; MGC45115; NLG1; Neuroigin-1; NLGN1; NLGN1 HUMAN. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,Guinea Pig, |
| Applications: | WB=1:500-2000ELISA=1:500-1000Flow-Cyt=1μg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 87kDa |
| Cellular localization: | cytoplasmicThe cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human Neuroigin 1:701-800/863<Cytoplasmic> |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | Neuroigin 1 is a synaptic cell-adhesion molecule that is enriched in postsynaptic densities where it may recruit receptors, channels, and signal-transduction molecules to synaptic sites of cell adhesion. In addition, the neuroigin/beta-neurexin junction may be involved in the excitatory/inhibitory specification of CNS neuron synapses. A role for Neuroigin 1 is also suggested in autism. Function: |

Cell surface protein involved in cell-cell-interactions via its interactions with neurexin family members. Plays a role in synapse function and synaptic signal transmission, and probably mediates its effects by recruiting and clustering other synaptic proteins. May promote the initial formation of synapses, but is not essential for this. In vitro, triggers the de novo formation of presynaptic structures. May be involved in specification of excitatory synapses.

Subunit:

Interacts with NRXN1, NRXN2 and NRXN3. Interacts with NLGN3. Interacts with AIP1 and PDZRN3. Interacts (via its C-terminus) with DLG4/PSD-95 (via PDZ domain 3). Interacts with GOPC.

Subcellular Location:

Cell membrane; Single-pass type I membrane protein. Cell junction, synapse. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Note=Enriched in synaptic plasma membranes and clustered in synaptic clefts and postsynaptic densities. Detected at dendritic spines. Colocalized with DLG4/PSD-95 and GRIN1/NMDAR1.

Tissue Specificity:

Expressed in the blood vessel walls (at protein level). Detected in brain, and at lower levels in pancreas islet beta cells.

Similarity:

Belongs to the type-B carboxylesterase/lipase family.

SWISS:

Q8N2Q7

Gene ID:

22871

Database links:

[Entrez Gene: 22871](#)Human

[Entrez Gene: 192167](#)Mouse

[Entrez Gene: 116647](#)Rat

[Omim: 600568](#)Human

[SwissProt: Q8N2Q7](#)Human

[SwissProt: Q99K10](#)Mouse

[SwissProt: Q62765](#)Rat

[Unigene: 478289](#)Human

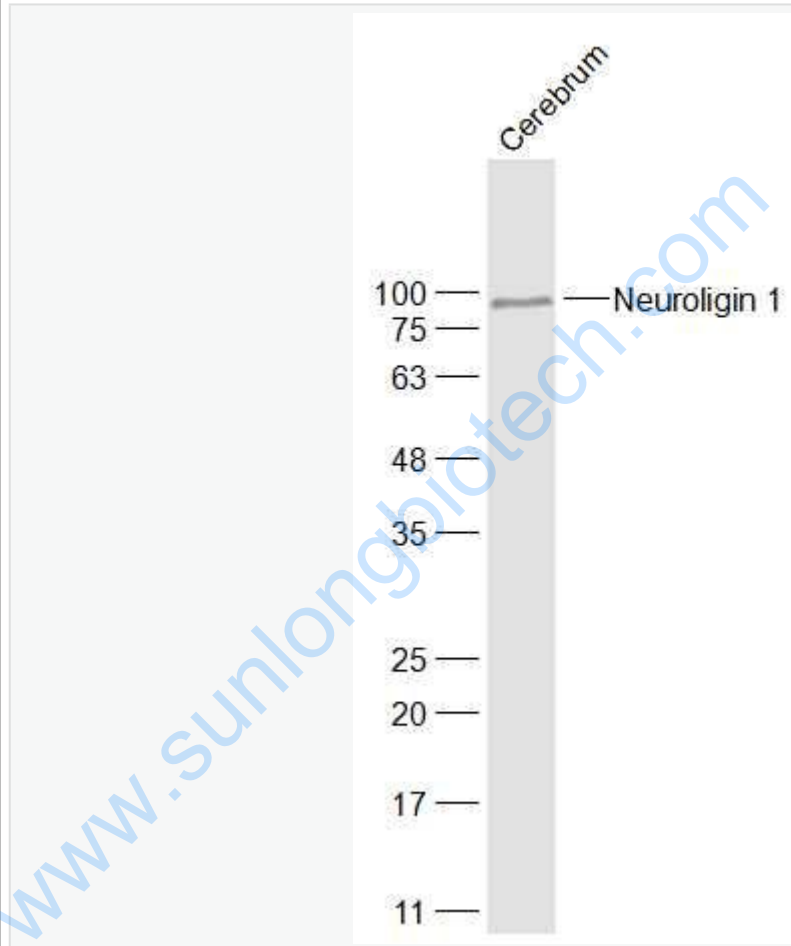
[Unigene: 316080](#)Mouse

[Unigene: 10173](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

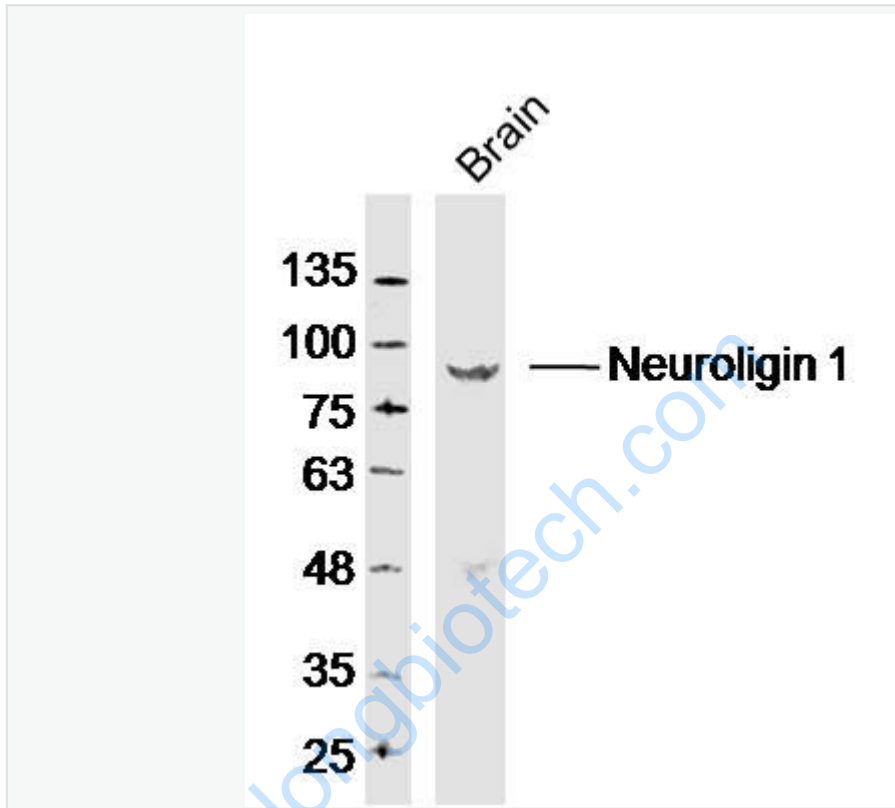
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-Neurologin 1 (SL4212R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 87 kD

Observed band size: 87 kD



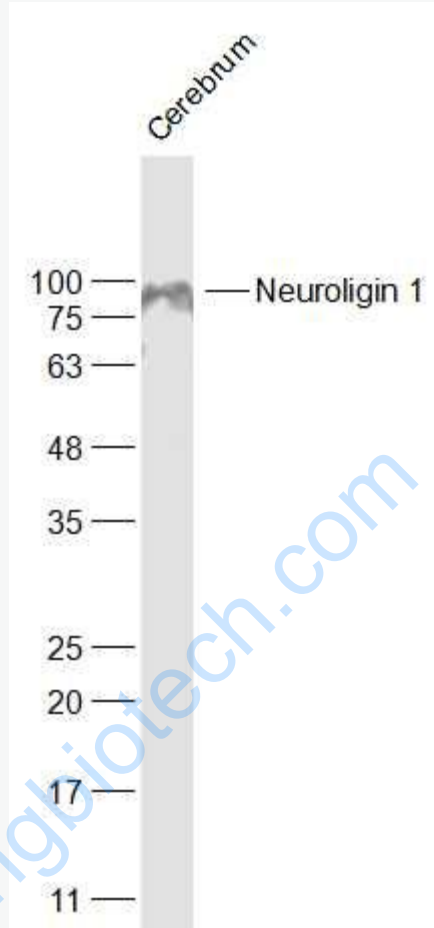
Sample: Brain (Mouse) Lysate at 40 ug

Primary: Anti-Neurologin 1 (SL4212R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 87 kD

Observed band size: 87 kD



Sample:

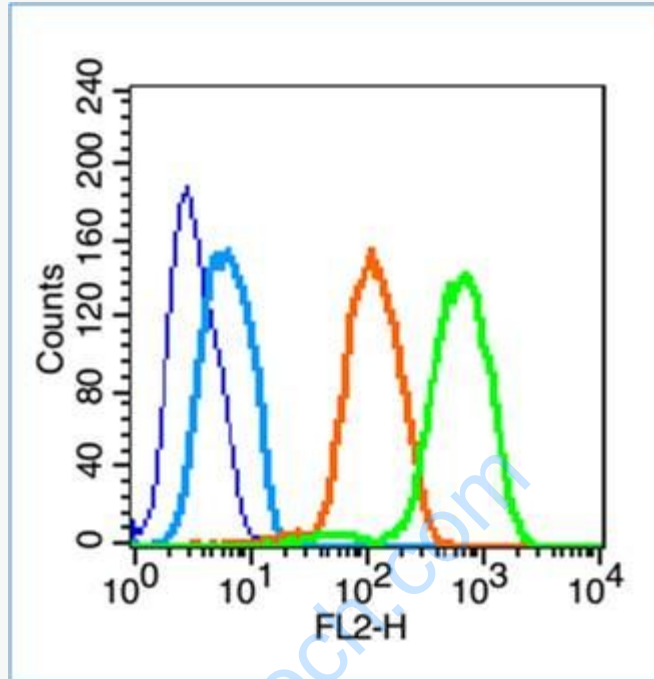
Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-Neurologin 1 (SL4212R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 87 kD

Observed band size: 87 kD



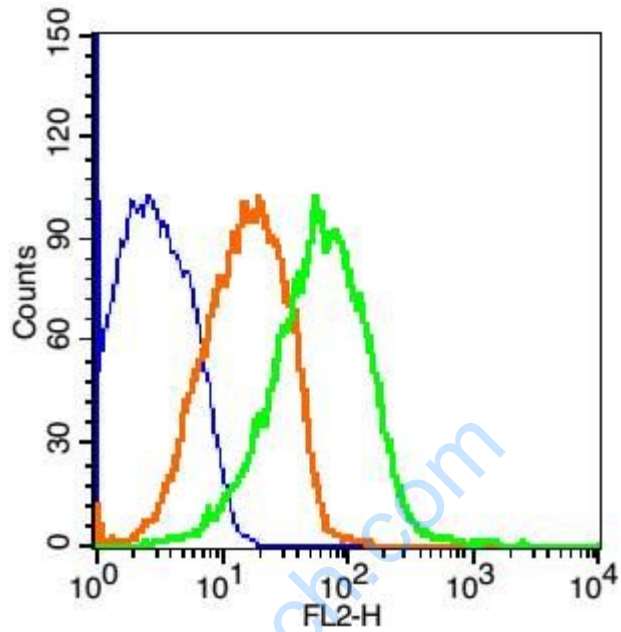
Blank control (blue line): U251 (fixed with 70% ethanol for 5 min at -20°C).

Primary Antibody (green line): Rabbit Anti- Neuroigin 1 antibody (SL4212R),

Dilution: 0.2µg /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE,Dilution: 1µg /test.



Blank control(blue): Mouse brain cells(fixed with 2% paraformaldehyde (10 min)).

Primary Antibody: Rabbit Anti- Neuroligin 1 /PE Conjugated antibody (SL4212R),

Dilution: 5 μ g in 100 μ L 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG/PE(orange) ,used under the same conditions.