

Neuroligin 4 Antibody

Neuroligin 4 Antibody, Clone S98-7 Catalog # ASM10301

Specification

Neuroligin 4 Antibody - Product Information

Application
Primary Accession
Other Accession
Host
Isotype
Reactivity
Clonality

WB, IHC, ICC
B0F2B4
ABS19580
Mouse
IgG1
Mouse
Mouse
Monoclonal

Description

Mouse Anti-Mouse Neuroligin 4 Monoclonal IgG1

Target/Specificity

Detects ~125-130kDa. Does not cross-react with other Neuroligins.

Other Names

ASPGX2 Antibody, AUTSX2 Antibody, HLNX Antibody, HNLX Antibody, KIAA1260 Antibody, MGC22376 Antibody, NLGN Antibody, NLGN4 Antibody, NLGN4X Antibody, neuroligin-4 X-linked Antibody, neuroligin X Antibody, neuroligin 4 Antibody, X-linked Antibody

Immunogen

Fusion protein amino acids 782-945 (intracellular C-terminus) of mouse Neuroligin 4. \sim 45% identity with Neuroligin-1, -2 and -3.

Purification

Protein G Purified

Storage -20°C

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Shipping Temperature Blue Ice or 4°C

Certificate of Analysis

 $1 \mu g/ml$ of SMC-469 was sufficient for detection of Neuroligin 4 in 20 μg of mouse brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization

Cell Membrane | Cell Junction

Neuroligin 4 Antibody - Protocols

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

- Western Blot
- Blocking Peptides

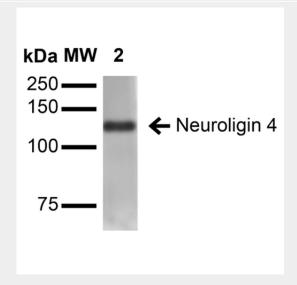


- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Neuroligin 4 Antibody - Images



Immunohistochemistry analysis using Mouse Anti-Neuroligin 4 Monoclonal Antibody, Clone N98/7 (ASM10301). Tissue: Dentate Gyrus. Species: Mouse. Fixation: formaldehyde-fixed paraffin embedded. Primary Antibody: Mouse Anti-Neuroligin 4 Monoclonal Antibody (ASM10301) at 1:100. Secondary Antibody: FITC Goat Anti-Mouse (green). Counterstain: DAPI (blue) nuclear stain at 1:1000. Courtesy of: Rachel Reith, NIH/NIMH.



Western Blot analysis of Mouse Brain Membrane showing detection of $\sim 125\text{-}130$ kDa Neuroligin 4 protein using Mouse Anti-Neuroligin 4 Monoclonal Antibody, Clone N98/7 (ASM10301). Lane 1: Molecular Weight Ladder (MW). Lane 2: Mouse Brain Membrane. Load: 15 μ g. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Neuroligin 4 Monoclonal Antibody (ASM10301) at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: $\sim 125\text{-}130$ kDa.

Neuroligin 4 Antibody - Background

This gene encodes a member of a family of neuronal cell surface proteins. Members of this family may act as splice site-specific ligands for beta-neurexins and may be involved in the formation and remodeling of central nervous system synapses. The encoded protein interacts with discs, large (Drosophila) homolog 4 (DLG4). Mutations in this gene have been associated with autism and Asperger syndrome. Two transcript variants encoding the same protein have been identified for this gene.