

Neuroigin-1 Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 56551 (clone S97A-31)

Format: 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

BACKGROUND

Neuroigin-1 is a neuronal cell surface protein and member of the type-B carboxylesterase/lipase family. It is a necessary component in the maturation of excitatory synapses, it participates in regulation of synaptic plasticity, and it is important in the development of long- term memory in adult mammalian amygdala. It's participation in cell-cell interactions may occur through assembly of intracellular junctions by binding of beta-neurexins. In nervous system tissue, Neuroigin-1 is observed primarily in neurons and in the spinal cord.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 718-843 (cytoplasmic C-terminus) of rat Neuroigin-1, accession no. Q62765). This sequence is 99% identical to mouse and 99% identical to human Neuroigin-1.

Accession nos.: NP_446320.1, Q62765

Gene ID: 116647

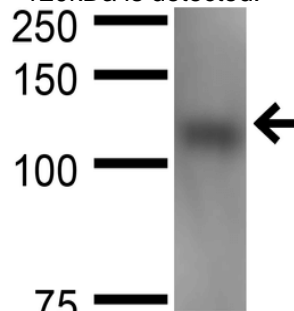
Host Species: Mouse

Antibody Class: IgG1

Specificity: This antibody recognizes human, mouse, and rat Neuroigin-1. It does not cross-react with other Neuroigins.

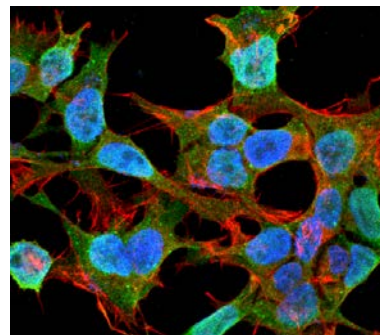
APPLICATIONS

Immunoblotting: use at 1-5ug/ml. A band of ~120kDa is detected.



Detection of Neuroigin-1 in mouse brain lysate with #56551 at 5ug/ml.

Immunofluorescence: use at 10ug/ml.



Detection of Neuroigin-1 in neuroblastoma cell line SK-N-BE with #56551 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, FITC (green) Neuroigin-1 stain.

These are recommended concentrations. Endusers should determine optimal concentrations for their applications.

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

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STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.