

Synaptotagmin-12 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56536 (clone S277-7)
Size: 100ug in PBS (1mg/ml), pH 7.4,
50% glycerol, 0.09% sodium azide.
Purified by Protein G affinity
chromatography.

BACKGROUND

Synaptotagmins constitute a family of membrane trafficking proteins that are characterized by an N terminal trans-membrane region (TMR), a variable linker, and two C-terminal C2 domains: C2A and C2B. There are 15 members in the mammalian synaptotagmin family. The synaptotagmins are integral membrane proteins of synaptic vesicles thought to act as Ca^{+2} sensors in vesicular trafficking and exocytosis. Calcium binding to synaptotagmin triggers neurotransmitter release at the synapse. The first C2 domain mediates Ca^{+2} -dependent phospholipid binding. The second C2 domain mediates interaction with Stonin 2.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 168-255 (cytoplasmic C2A domain) of mouse Synaptotagmin-12 (accession no.Q920N7).

Host Species: Mouse

Antibody Class: IgG1

SPECIFICITY

This antibody recognizes mouse and rat Synaptotagmin-12. It does not cross-react with other Synaptotagmins.

APPLICATIONS

Immunoblotting: use at 1ug/ml. Predicted molecular weight is ~45kDa. Additional isoforms are detected as well.

Positive Control: rat brain lysate.

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

DILUTION INSTRUCTIONS

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

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at $-20^{\circ}C$. Avoid repeated freeze-thaw cycles.

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