Recombinant Mouse Snapin Protein, Myc/DDK-tagged

Cat. No. Snapin-5995M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length SNAP-associated protein (cDNA clone MGC:12076 IMAGE:3708620), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Component of the BLOC-1 complex, a complex that is required for normal biogenesis of lysosome-related organelles (LRO), such as platelet dense granules and melanosomes. In concert with the AP-3 complex, the BLOC-1 complex is required to target membrane protein cargos into vesicles assembled at cell bodies for delivery into neurites and nerve terminals. The BLOC-1 complex, in association with SNARE proteins, is also proposed to be involved in neurite extension. Plays a role in intracellular vesicle trafficking and synaptic vesicle recycling. May modulate a step between vesicle priming, fusion and calcium-dependent neurotransmitter release through its ability to potentiate the interaction of synaptotagmin with the SNAREs and the plasma-membrane-associated protein SNAP25. Its phosphorylation state influences exocytotic protein interactions and may regulate synaptic vesicle exocytosis. May also have a role in the mechanisms of SNARE-mediated membrane fusion in non-neuronal cells. As part of the BORC complex may play a role in lysosomes movement and localization at the cell periphery. Associated with the cytosolic face of lysosomes, the BORC complex may recruit ARL8B and couple lysosomes to microtubule plus-end-directed kinesin motor.

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Molecular Mass	9.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Snapin SNAP-associated protein [Mus musculus (house mouse)]
Official Symbol	Snapin
Synonyms	Snapin; SNAP-associated protein; Sna; Bloc; 25kDa; Snapap; Bloc1s7; AA407989; AV026596; Snap25bp; SNARE-associated protein Snapin; BLOC-1 subunit 7; biogenesis of lysosome-related organelles complex 1 subunit 7; synaptosomal-associated protein 25 binding protein; synaptosomal-associated protein, 25 kDa, binding protein
Gene ID	20615
mRNA Refseq	NM_133854
Protein Refseq	NP_598615

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UniProt ID	Q9Z266

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