

Synaptic Vesicle Antibody Sampler Kit

Cat# AK0270

Upon receipt, store at -20°C. Avoid freeze/thaw cycles.

PRODUCT DESCRIPTION

Fusion of a vesicle to its target membrane is a universal process in eukaryotic cells for proper cellular organization and function. Several protein-protein interactions are essential to membrane fusion during endocytosis. Membrane fusion requires interaction among SNARE1 proteins associated with both donor and acceptor membranes. SNAP25 forms a core complex with the SNARE proteins syntaxin and synaptobrevin to mediate synaptic vesicle fusion with the plasma membrane during Ca²⁺-dependent exocytosis. Syntaxin 6 is a ubiquitously expressed S25C family member of the SNARE proteins. Munc18-1 acts as a molecular chaperone for syntaxin-1, allowing for formation of the SNARE complex at the plasma membrane. Following membrane fusion, the α -SNAP cytoplasmic adapter protein binds to the SNARE complex. N-ethylmaleimide-sensitive factor (NSF), a hexameric ATPase, then associates with the α -SNAP/SNARE complex to mediate SNARE disassembly during membrane fusion. The ATPase activity of NSF induces a conformational change in the α -SNAP/SNARE complex that leads to its dissociation from the membrane, membrane fusion, and eventual recycling of the SNARE complex for subsequent membrane fusion.

PRODUCT INCLUDES

Cat No.	Product name	Quantity	Applications	Reactivity	Host
A340146	STXBP1 Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A340610	NSF Polyclonal Antibody	20 μ L	WB, ELISA	Human, Mouse, Rat	Rabbit
A340105	SNAP25 Polyclonal Antibody	20 μ L	WB, IHC, ELISA	Human, Mouse, Rat	Rabbit
A1013s	Goat Anti-Rabbit IgG (H+L) (peroxidase/HRP conjugated)	120 μ L	WB, ELISA	Rabbit	Goat

PRODUCT USE LIMITATION

These products are intended for research use only.