

## Endophilin I Polyclonal Antibody

<b>Catalog No :</b>	YT1559
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	Endophilin I
<b>Fields :</b>	>>Endocytosis
<b>Gene Name :</b>	SH3GL2
<b>Protein Name :</b>	Endophilin-A1
<b>Human Gene Id :</b>	6456
<b>Human Swiss Prot No :</b>	Q99962
<b>Mouse Gene Id :</b>	20404
<b>Mouse Swiss Prot No :</b>	Q62420
<b>Rat Gene Id :</b>	116743
<b>Rat Swiss Prot No :</b>	O35179
<b>Immunogen :</b>	Synthesized peptide derived from Endophilin I . at AA range: 30-110
<b>Specificity :</b>	Endophilin I Polyclonal Antibody detects endogenous levels of Endophilin I protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.

<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	39kD
<b>Cell Pathway :</b>	Endocytosis;
<b>Background :</b>	<p>domain:An N-terminal amphipathic helix, the BAR domain and a second amphipathic helix inserted into helix 1 of the BAR domain (N-BAR domain) induce membrane curvature and bind curved membranes. The BAR domain dimer forms a rigid crescent shaped bundle of helices with the pair of second amphipathic helices protruding towards the membrane-binding surface.,function:Implicated in synaptic vesicle endocytosis. May recruit other proteins to membranes with high curvature.,miscellaneous:HeLa cells expressing the N-BAR domain of SH3GL2 show tubulation of the plasma membrane. The N-BAR domain binds liposomes and induces formation of tubules from liposomes. The N-terminal amphipathic helix is required for liposome binding. The second amphipathic helix enhances liposome tubulation.,similarity:Belongs to the endophilin family.,similarity:Contains 1 BAR domain.,similarity:Contains 1 SH3 domain.,subcellular location:Concentrated in presynaptic nerve terminals in neurons.,subunit:Monomer; in cytoplasm. Homodimer; when associated with membranes (By similarity). Interacts with SYNJ1 and DNM1. Interacts with MAP4K3; the interaction appears to regulate MAP4K3-mediated JNK activation. Interacts with PDCD6IP.,tissue specificity:Brain, mostly in frontal cortex. Expressed at high level in fetal cerebellum.,</p>
<b>Function :</b>	<p>domain:An N-terminal amphipathic helix, the BAR domain and a second amphipathic helix inserted into helix 1 of the BAR domain (N-BAR domain) induce membrane curvature and bind curved membranes. The BAR domain dimer forms a rigid crescent shaped bundle of helices with the pair of second amphipathic helices protruding towards the membrane-binding surface.,function:Implicated in synaptic vesicle endocytosis. May recruit other proteins to membranes with high curvature.,miscellaneous:HeLa cells expressing the N-BAR domain of SH3GL2 show tubulation of the plasma membrane. The N-BAR domain binds liposomes and induces formation of tubules from liposomes. The N-terminal amphipathic helix is required for liposome binding. The second amphipathic helix enhances liposome tubulation.,similarity:Belongs to the endophilin family.,similarity:Contains 1 BAR domain.,similarity:Contains 1 SH3 domain.,subcel</p>
<b>Subcellular Location :</b>	Cytoplasm . Membrane ; Peripheral membrane protein . Early endosome . Cell junction, synapse, presynapse .
<b>Expression :</b>	Brain, mostly in frontal cortex. Expressed at high level in fetal cerebellum.

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<b>Sort :</b>	5560
<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

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## Products Images

