

## VAMP-4 Polyclonal Antibody

<b>Catalog No :</b>	YT4851
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	IF;ELISA
<b>Target :</b>	VAMP4
<b>Fields :</b>	>>SNARE interactions in vesicular transport
<b>Gene Name :</b>	VAMP4
<b>Protein Name :</b>	Vesicle-associated membrane protein 4
<b>Human Gene Id :</b>	8674
<b>Human Swiss Prot No :</b>	O75379
<b>Mouse Swiss Prot No :</b>	O70480
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human VAMP4. AA range:1-50
<b>Specificity :</b>	VAMP-4 Polyclonal Antibody detects endogenous levels of VAMP-4 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>	IF 1:200 - 1:1000. 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)

**Molecularweight :** 16kD

**Cell Pathway :** SNARE interactions in vesicular transport;

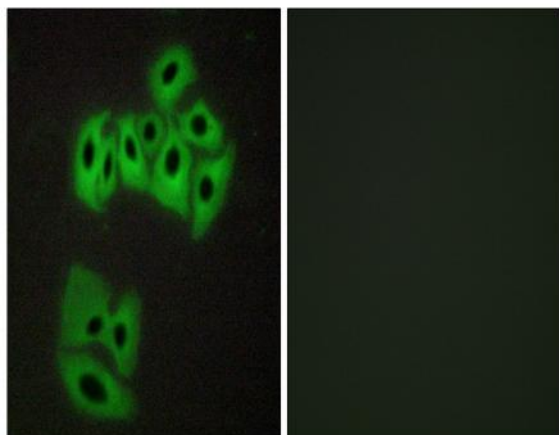
**Background :** Synaptobrevins/VAMPs, syntaxins, and the 25-kD synaptosomal-associated protein SNAP25 are the main components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane. The protein encoded by this gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. This protein may play a role in trans-Golgi network-to-endosome transport. [provided by RefSeq, Jul 2008],

**Function :** function:Involved in the pathway that functions to remove an inhibitor (probably synaptotagmin-4) of calcium-triggered exocytosis during the maturation of secretory granules. May be a marker for this sorting pathway that is critical for remodeling the secretory response of granule.,similarity:Belongs to the synaptobrevin family.,similarity:Contains 1 v-SNARE coiled-coil homology domain.,subcellular location:Associated with trans Golgi network (TGN) and newly formed immature secretory granules (ISG). Not found on the mature secretory organelles.,subunit:Identified in a complex containing STX6, STX13, VAMP4 and VT11A.,

**Subcellular Location :** Golgi apparatus, trans-Golgi network membrane ; Single-pass type IV membrane protein . Associated with trans Golgi network (TGN) and newly formed immature secretory granules (ISG). Not found on the mature secretory organelles.

**Expression :** B-cell,Bone marrow,Epithelium,Liver,Urinary bladder,

## Products Images



Immunofluorescence analysis of A549 cells, using VAMP4 Antibody. The picture on the right is blocked with the synthesized peptide.