

## Granuphilin Polyclonal Antibody

<b>Catalog No :</b>	YT2047
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	Granuphilin
<b>Gene Name :</b>	SYTL4
<b>Protein Name :</b>	Synaptotagmin-like protein 4
<b>Human Gene Id :</b>	94121
<b>Human Swiss Prot No :</b>	Q96C24
<b>Mouse Gene Id :</b>	27359
<b>Mouse Swiss Prot No :</b>	Q9R0Q1
<b>Rat Gene Id :</b>	140594
<b>Rat Swiss Prot No :</b>	Q8VHQ7
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human SYTL4. AA range:381-430
<b>Specificity :</b>	Granuphilin Polyclonal Antibody detects endogenous levels of Granuphilin 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: 1:40000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 76kD

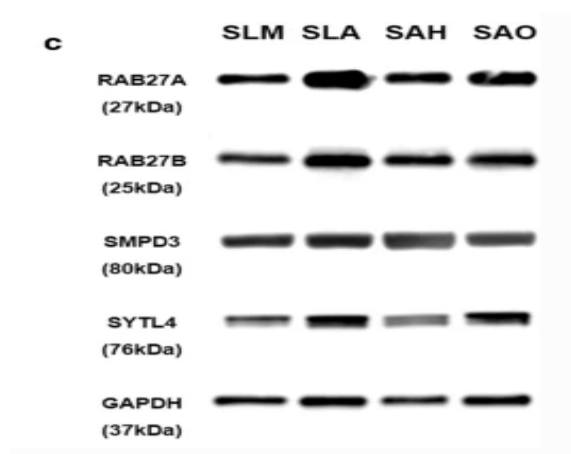
**Background :** This gene encodes a member of the synaptotagmin like protein family. Members of this family are characterized by an N-terminal Rab27 binding domain and C-terminal tandem C2 domains. The encoded protein binds specific small Rab GTPases and is involved in intracellular membrane trafficking. This protein binds Rab27 and may be involved in inhibiting dense core vesicle exocytosis. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Mar 2010],

**Function :** function:Modulates exocytosis of dense-core granules and secretion of hormones in the pancreas and the pituitary. Interacts with vesicles containing negatively charged phospholipids in a Ca(2+)-independent manner.,similarity:Contains 1 FYVE-type zinc finger.,similarity:Contains 1 RabBD (Rab-binding) domain.,similarity:Contains 2 C2 domains.,subcellular location:Detected close to the plasma membrane and on secretory granules. In pancreas, interacts with insulin-containing vesicles.,subunit:Part of a ternary complex containing STX1A and RAB27A. Can bind both dominant negative and dominant active mutants of RAB27A. Binds STXBP1, RAB3A, RAB8A and RAB27B.,

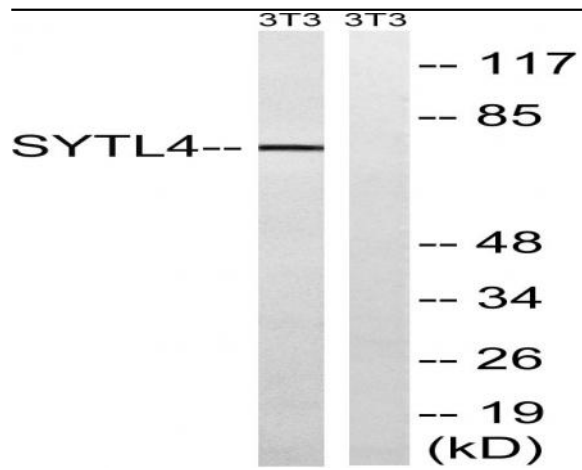
**Subcellular Location :** Membrane ; Peripheral membrane protein . Cell membrane ; Peripheral membrane protein . Cytoplasmic vesicle, secretory vesicle membrane ; Peripheral membrane protein . Detected close to the plasma membrane and on secretory granules. In pancreas, interacts with insulin-containing vesicles (By similarity). .

**Expression :** Adrenal gland,Endometrium,Epithelium,Platelet,Spinal cord,Testis,Uterus,

## Products Images



Zhang, Z., Xu, R., Yang, Y. et al. Micro/nano-textured hierarchical titanium topography promotes exosome biogenesis and secretion to improve osseointegration. J Nanobiotechnol 19, 78 (2021).



Western blot analysis of lysates from NIH/3T3 cells, using SYTL4 Antibody. The lane on the right is blocked with the synthesized peptide.