

## Granuphilin polyclonal antibody

Catalog: BS62493

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Granuphilin, also designated synaptotagmin-like protein 4 or exophilin 2, is a member of the synaptotagmin-like protein family. In rodents, two isoforms have been characterized as granuphilin-a and granuphilin-b, and alternative splicing in human has also been described. Granuphilin-b is a shorter isoform which contains a different C-terminal sequence than the longer isoform. Granuphilin is part of a ternary complex consisting of Syntaxin 1A (STX1A) and Rab 27A. The interaction between granuphilin and Syntaxin 1A on the plasma membrane is regulated by Rab 27A. Granuphilin is a peripheral membrane protein mainly expressed in pancreatic  $\beta$ -cells and in the pituitary gland. It has been detected on secretory granules and close to the plasma membrane. In the pancreas, granuphilin interacts with Insulin-containing vesicles while in both the pancreas and pituitary, granuphilin modulates the secretion of hormones and the exocytosis of dense-core granules. Overexpression of granuphilin enhances basal Insulin secretion but also inhibits high  $K^+$ -induced Insulin secretion. The effect of granuphilin on Insulin secretion may be impaired by a mutation that disrupts the binding to either Rab 27A or Syntaxin 1A, making granuphilin a possible regulator in the exocytotic pathway

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 76 kDa

### Swiss-Prot:

Q96C24

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB:1:500~1:1000 IHC:1:50~1:200

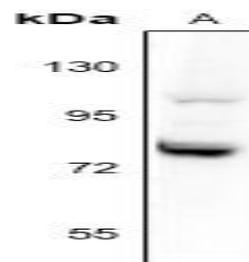
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Granuphilin polyclonal antibody detects endogenous levels of Granuphilin protein.

### DATA:



Western blot (WB) analysis of Granuphilin polyclonal antibody at 1:500 dilution

LaneA:CT26 whole cell lysate

### Note:

For research use only, not for use in diagnostic procedure.

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