

### **Unc18-3 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58449

#### **Specification**

### **Unc18-3 Polyclonal Antibody - Product Information**

Application IHC-P, IHC-F, IF, E

Primary Accession <u>000186</u>

Reactivity Rat, Pig, Dog, Bovine Rabbit

Clonality Polyclonal Calculated MW 68 KDa Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

from human Unc18-3

Epitope Specificity 165-260/592

Isotype IgG

affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Cytoplasm, cytosol. Cell membrane.
SIMILARITY Belongs to the STXBP/unc-18/SEC1 family.

SUBUNIT

Interacts with DOC2B; the interaction is direct, occurs at the cell membrane, excludes interaction with STX4 and regulates glucose-stimulated insulin secretion (By similarity). Interacts with

STX4.

Post-translational modifications Phosphorylated by PKC in platelets in

response to thrombin stimulation;

phosphorylation inhibits binding to STX4.

Important Note

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

# **Background Descriptions**

May participate in the regulation of synaptic vesicle docking and fusion, possibly through interaction with GTP-binding proteins. Essential for neurotransmission and binds syntaxin, a component of the synaptic vesicle fusion machinery probably in a 1:1 ratio. Can interact with syntaxins 1, 2, and 3 but not syntaxin 4. May play a role in determining the specificity of intracellular fusion reactions.

#### Unc18-3 Polyclonal Antibody - Additional Information

#### **Gene ID 6814**

## **Other Names**

Syntaxin-binding protein 3, Platelet Sec1 protein, PSP, Protein unc-18 homolog 3, Unc18-3, Protein



unc-18 homolog C, Unc-18C, STXBP3

### **Target/Specificity**

Megakaryocytes and platelets.

#### **Dilution**

<span class ="dilution\_IHC-P">IHC-P~~N/A</span><br \> <span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \> <span class
="dilution\_IF">IF~~1:50~200</span><br \> <span class ="dilution\_E">E~~N/A</span>

### **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

### **Unc18-3 Polyclonal Antibody - Protein Information**

#### Name STXBP3

#### **Function**

Together with STX4 and VAMP2, may play a role in insulin- dependent movement of GLUT4 and in docking/fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes.

#### **Cellular Location**

Cytoplasm, cytosol. Cell membrane. Note=In platelets, predominantly cytosolic. Low amounts membrane-associated

#### **Tissue Location**

Megakaryocytes and platelets.

### **Unc18-3 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# **Unc18-3 Polyclonal Antibody - Images**