

**UNC13B Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13116A****Specification**

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**UNC13B Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O14795</a>
Other Accession	<a href="#">NP_006368.3</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	180679
Antigen Region	263-292

**UNC13B Antibody (N-term) - Additional Information****Gene ID** 10497**Other Names**

Protein unc-13 homolog B, Munc13-2, munc13, UNC13B, UNC13

**Target/Specificity**

This UNC13B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 263-292 amino acids from the N-terminal region of human UNC13B.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

UNC13B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**UNC13B Antibody (N-term) - Protein Information****Name** UNC13B ([HGNC:12566](#))**Synonyms** UNC13

**Function** Plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. Is involved in neurotransmitter release by acting in synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependent refilling of readily releasable vesicle pool (RRP) (By similarity). Essential for synaptic vesicle maturation in a subset of excitatory/glutamatergic but not inhibitory/GABA-mediated synapses (By similarity). In collaboration with UNC13A, facilitates neuronal dense core vesicles fusion as well as controls the location and efficiency of their synaptic release (By similarity).

#### **Cellular Location**

Cytoplasm. Membrane; Peripheral membrane protein. Cell membrane Synapse. Note=Localized to synapses. Translocated to the plasma membrane in response to phorbol ester binding (By similarity)

#### **Tissue Location**

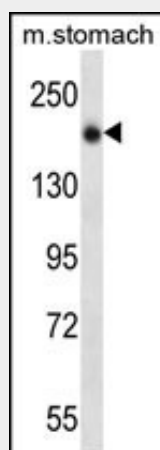
Expressed in kidney cortical epithelial cells and brain.

### **UNC13B Antibody (N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **UNC13B Antibody (N-term) - Images**



UNC13B Antibody (N-term) (Cat. #AP13116a) western blot analysis in mouse stomach tissue lysates (35ug/lane). This demonstrates the UNC13B antibody detected the UNC13B protein (arrow).

### **UNC13B Antibody (N-term) - Background**

This gene is expressed in the kidney cortical epithelial cells and is upregulated by hyperglycemia. The encoded protein shares a high level of similarity to the rat homolog, and contains

3 C2 domains and a diacylglycerol-binding C1 domain. Hyperglycemia increases the levels of diacylglycerol, which has been shown to induce apoptosis in cells transfected with this gene and thus contribute to the renal cell complications of hyperglycemia. Studies in other species also indicate a role for this protein in the priming step of synaptic vesicle exocytosis. [provided by RefSeq].

#### **UNC13B Antibody (N-term) - References**

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Goldenberg, N.M., et al. Am. J. Physiol., Cell Physiol. 297 (4), C1053-C1058 (2009) :  
Dimova, K., et al. Biochemistry 48(25):5908-5921(2009)  
Tregouet, D.A., et al. Diabetes 57(10):2843-2850(2008)  
Speight, P., et al. Traffic 6(10):858-865(2005)