

**UNC13B Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8905c**

**Specification**

**UNC13B Antibody (Center) - Product Information**

Application	FC, WB,E
Primary Accession	<a href="#">O14795</a>
Other Accession	<a href="#">Q9Z1N9</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1062-1091

**UNC13B Antibody (Center) - 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 1062-1091 amino acids from the Central region of human UNC13B.

**Dilution**

FC~~1:10~50

WB~~1:1000

E~~Use at an assay dependent concentration.

**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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**UNC13B Antibody (Center) - 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-depending 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

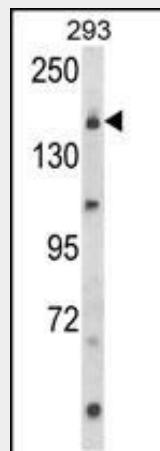
Expressed in kidney cortical epithelial cells and brain.

## UNC13B Antibody (Center) - Protocols

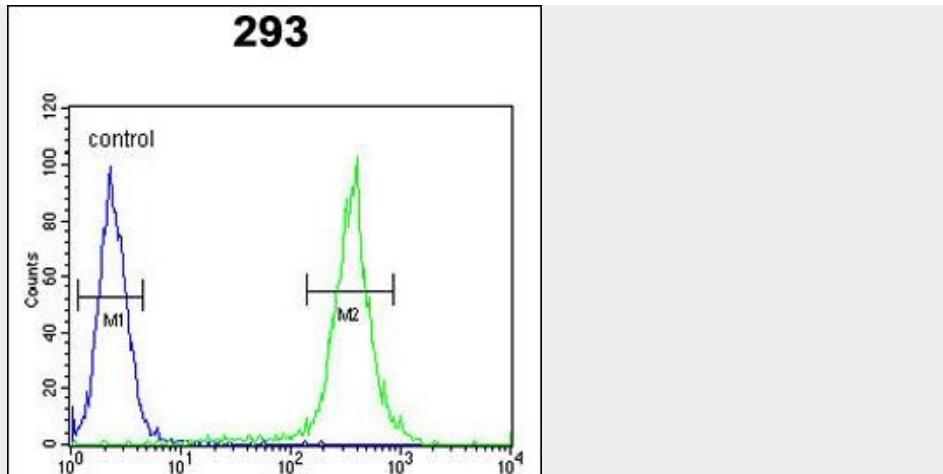
Provided below are standard protocols that you may find useful for product applications.

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

## UNC13B Antibody (Center) - Images



Western blot analysis of UNC13B Antibody (Center) (Cat. #AP8905c) in 293 cell line lysates (35ug/lane). UNC13B (arrow) was detected using the purified Pab.



UNC13B Antibody (Center) (Cat. #AP8905c) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **UNC13B Antibody (Center) - Background**

UNC13B plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. It is involved in neurotransmitter release by acting in synaptic vesicle priming prior to vesicle fusion and participates in the activity-dependently refilling of readily releasable vesicle pool (RRP). It is essential for synaptic vesicle maturation in a subset of excitatory/glutamatergic but not inhibitory/GABA-mediated synapses (By similarity).

#### **UNC13B Antibody (Center) - References**

Sjoebloem T., et.al., Science 314:268-274(2006).  
Yu L.-R., Zhu Z., et.al., J. Proteome Res. 6:4150-4162(2007).

#### **UNC13B Antibody (Center) - Citations**

- [Size-dependent mechanism of cargo sorting during lysosome-phagosome fusion is controlled by Rab34.](#)