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

Specification

UNC13B Antibody (Center) - Product Information

Application	**FC, WB,E**
Primary Accession	O14795
Other Accession	Q9Z1N9
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)

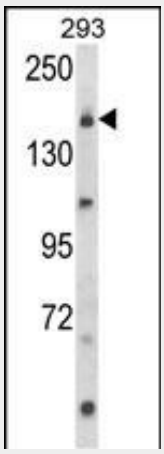
Tissue Location
Expressed in kidney cortical epithelial cells and brain.

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 Cytomety
- 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.

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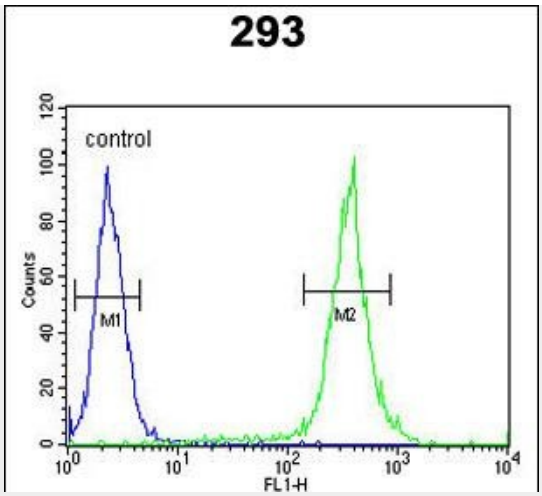

UNC13B Antibody (Center) (Cat. #AP8905c) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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-depending 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

Sjoeblom 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.