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UNC13B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8905c

Product Information

Application	WB, FC, E
Primary Accession	O14795
Other Accession	Q9Z1N9
Reactivity	Human, Rat, Mouse
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22476
Calculated MW	180679
Antigen Region	1062-1091

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	WB~~1:1000 FC~~1:10~50 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.

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.

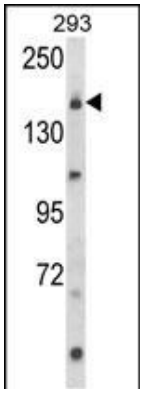
Background

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).

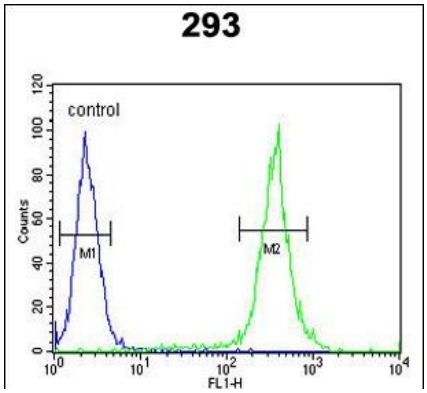
References

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

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.

Citations

- Size-dependent mechanism of cargo sorting during lysosome-phagosome fusion is controlled by Rab34.