

UNC13B Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13116A

Product Information

Application	WB, E
Primary Accession	O14795
Other Accession	NP_006368.3
Reactivity	Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32155
Calculated MW	180679
Antigen Region	263-292

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 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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.

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.

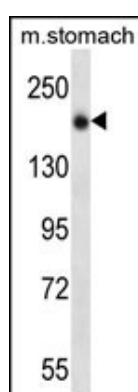
Background

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].

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)

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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.