

ARG54991 anti-UNC13B antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes UNC13B
Tested Reactivity	Hu
Predict Reactivity	Ms
Tested Application	FACS, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	UNC13B
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 1062-1091 (Center) of Human UNC13B.
Conjugation	Un-conjugated
Alternate Names	munc13; Protein unc-13 homolog B; UNC13; Munc13-2; Unc13h2; MUNC13

Application Instructions

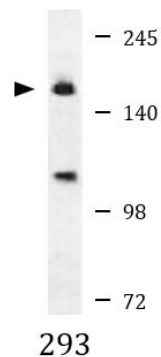
Application table	Application	Dilution
	FACS	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	293	

Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

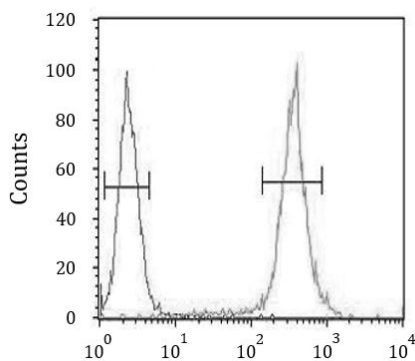
Database links	GeneID: 10497 Human Swiss-port # O14795 Human
Gene Symbol	UNC13B
Gene Full Name	unc-13 homolog B (C. elegans)
Background	This gene is expressed in the kidney cortical epithelial cells and is upregulated by hyperglycemia. The encoded protein shares a high level of similarity to the rat 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, Jul 2008]
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). Essential for synaptic vesicle maturation in a subset of excitatory/glutamatergic but not inhibitory/GABA-mediated synapses (By similarity). [UniProt]
Research Area	Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	181 kDa
Cellular Localization	Cytoplasm. Membrane; Peripheral membrane protein. Cell membrane. Cell junction, synapse Note=Localized to synapses. Translocated to the plasma membrane in response to phorbol ester binding (By similarity).

Images



ARG54991 anti-UNC13B antibody WB image

Western blot: 35 µg of 293 cell lysate stained with ARG54991 anti-UNC13B antibody.



ARG54991 anti-UNC13B antibody FACS image

Flow Cytometry: 293 cells stained with ARG54991 anti-UNC13B antibody (right histogram) or without primary antibody control (left histogram), followed by incubation with FITC labelled secondary antibody.