



# UN13B mouse mAb

<b>Catalog No</b>	BYmab-11755
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human; Mouse;Rat
<b>Applications</b>	WB
<b>Gene Name</b>	UNC13B UNC13
<b>Protein Name</b>	UN13B
<b>Immunogen</b>	Synthesized peptide derived from human UN13B AA range: 1325-1375
<b>Specificity</b>	This antibody detects endogenous levels of UN13B at Human/Mouse/Rat
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cytoplasm . Membrane ; Peripheral membrane protein . Cell membrane . Cell junction, synapse . Localized to synapses. Translocated to the plasma membrane in response to phorbol ester binding (By similarity). .
<b>Tissue Specificity</b>	Expressed in kidney cortical epithelial cells and brain.
<b>Function</b>	domain:The C2 domains are not involved in calcium-dependent phospholipid binding.,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). Essential for synaptic vesicle maturation in a subset of excitatory/glutamatergic but not inhibitory/GABA-mediated synapses.,similarity:Belongs to the unc-13 family.,similarity:Contains 1 MHD1 (MUNC13 homology domain 1) domain.,similarity:Contains 1 MHD2 (MUNC13 homology domain 2) domain.,similarity:Contains 1 phorbol-ester/DAG-type zinc finger.,similarity:Contains 3 C2 domains.,subcellular location:Localized to

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synapses. Translocated to the plasma membrane in response to phorbol ester binding.

#### 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],

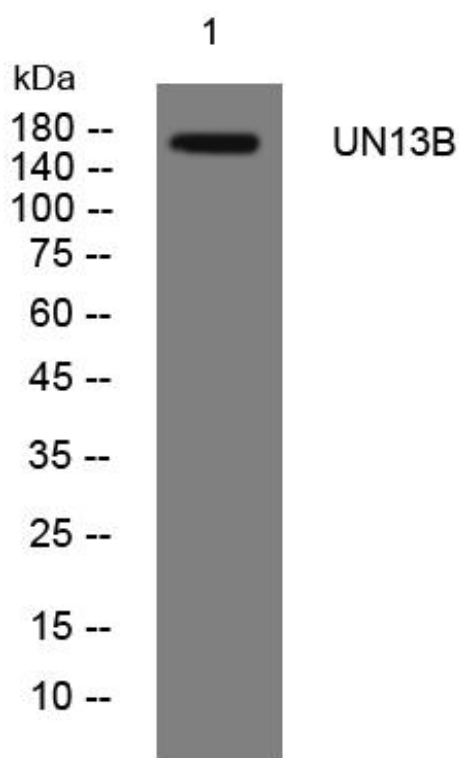
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using UN13B mouse mAb