

UN13B rabbit pAb

Catalog No :	YT7120
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	UN13B
Fields :	>>Synaptic vesicle cycle
Gene Name :	UNC13B UNC13
Protein Name :	UN13B
Human Gene Id :	10497
Human Swiss Prot No :	O14795
Mouse Gene Id :	22249
Mouse Swiss Prot No :	Q9Z1N9
Rat Gene Id :	64830
Rat Swiss Prot No :	Q62769
Immunogen :	Synthesized peptide derived from human UN13B AA range: 1325-1375
Specificity :	This antibody detects endogenous levels of UN13B at Human/Mouse/Rat
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1[?]500-2000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Molecularweight : 175kD

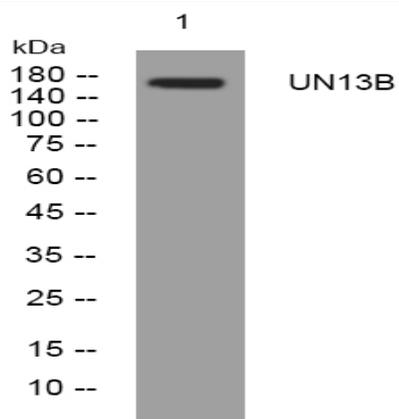
Background : This gene is expressed in the kidney cortical epithelial cells and is upregulated by hyperglycemia. The encoded protein shares a high level of similarity to the rat homolog, and contains 3 C2 domains and a diacylglycerol-binding C1 domain. Hyperglycemia increases the levels of diacylglycerol, 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 : 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-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., 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 synapses. Translocated to the plasma membrane in response to phorbol ester binding.

Subcellular Location : 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). .

Expression : Expressed in kidney cortical epithelial cells and brain.

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Western blot analysis of lysates from MCF-7 cells, primary antibody was diluted at 1:1000, 4° over night