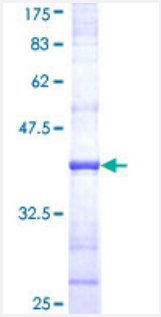
UNC13B (Human) Recombinant Protein (Q01)

Catalog # H00010497-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human UNC13B partial ORF (NP_006368, 1482 a.a. - 1591 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	SKSNNWAPKYNETFHLLLGNEEGPESYELQICVKDYCFAREDRVLGLAVMPLRDVTAKGSCACW CPLGRKIHMDETGLTILRILSQRSNDEVAREFVKLKSESRSTEEGS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (94); Rat (92)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — UNC13B

Entrez GeneID	10497
GeneBank Accession#	NM_006377
Protein Accession#	NP_006368
Gene Name	UNC13B
Gene Alias	MGC133279, MGC133280, MUNC13, UNC13, Unc13h2, hmunc13
Gene Description	unc-13 homolog B (C. elegans)
Omim ID	605836
Gene Ontology	Hyperlink
Gene Summary	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 domai ns 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 t o the renal cell complications of hyperglycemia. Studies in other species also indicate a role for th is protein in the priming step of synaptic vesicle exocytosis. [provided by RefSeq
Other Designations	OTTHUMP00000021327|UNC13 (C. elegans)-like|homolog of rat Munc13 (diacylglycerol-binding)|unc-13-like

Disease

- Diabetes Mellitus
- Diabetic Nephropathies

- Genetic Predisposition to Disease
- Tobacco Use Disorder