

**UNC13B Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8905c****Specification**

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**UNC13B Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O14795](#)**UNC13B Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 10497**Other Names**

Protein unc-13 homolog B, Munc13-2, munc13, UNC13B, UNC13

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8905c](/products/AP8905c) was selected from the Center region of human UNC13B. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**UNC13B Antibody (Center) Blocking Peptide - 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-depending 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.

**UNC13B Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**UNC13B Antibody (Center) Blocking Peptide - Images****UNC13B Antibody (Center) Blocking Peptide - Background**

UNC13B plays a role in vesicle maturation during exocytosis as a target of the diacylglycerol second messenger pathway. It 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). It is essential for synaptic vesicle maturation in a subset of excitatory/glutamatergic but not inhibitory/GABA-mediated synapses (By similarity).

**UNC13B Antibody (Center) Blocking Peptide - References**

Sjoeblom T., et.al., Science 314:268-274(2006). Yu L.-R., Zhu Z., et.al., J. Proteome Res. 6:4150-4162(2007).