

**UNC119 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9373c****Specification**

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**UNC119 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q13432](#)**UNC119 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 9094**Other Names**

Protein unc-119 homolog A, Retinal protein 4, hRG4, UNC119, RG4

**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.

**UNC119 Antibody (Center) Blocking Peptide - Protein Information****Name** UNC119**Synonyms** RG4**Function**

Involved in synaptic functions in photoreceptor cells, the signal transduction in immune cells as a Src family kinase activator, endosome recycling, the uptake of bacteria and endocytosis, protein trafficking in sensory neurons and as lipid-binding chaperone with specificity for a diverse subset of myristoylated proteins. Specifically binds the myristoyl moiety of a subset of N-terminally myristoylated proteins and is required for their localization. Binds myristoylated GNAT1 and is required for G-protein localization and trafficking in sensory neurons. Probably plays a role in trafficking proteins in photoreceptor cells. Plays important roles in mediating Src family kinase signals for the completion of cytokinesis via RAB11A.

**Cellular Location**

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Cytoplasm, cytoskeleton, spindle. Note=Localizes to the centrosome in interphase cells and begins to translocate from the spindle pole to the spindle midzone after the onset of mitosis; it then localizes to the intercellular bridge in telophase cells and to the midbody in cytokinetic cells.

**Tissue Location**

Abundantly expressed in retina, in photoreceptor synapses and inner segments. Expressed in a much lesser extent in several other tissues.

**UNC119 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**UNC119 Antibody (Center) Blocking Peptide - Images****UNC119 Antibody (Center) Blocking Peptide - Background**

UNC119 is specifically expressed in the photoreceptors in the retina. The encoded product shares strong homology with the *C. elegans* unc119 protein and it can functionally complement the *C. elegans* unc119 mutation. It has been localized to the photoreceptor synapses in the outer plexiform layer of the retina, and suggested to play a role in the mechanism of photoreceptor neurotransmitter release through the synaptic vesicle cycle.

**UNC119 Antibody (Center) Blocking Peptide - References**

Karim, Z., et al. Cell. Signal. 22(1):128-137(2010) Gorska, M.M., et al. J. Immunol. 183(3):1675-1684(2009) Vepachedu, R., et al. J. Immunol. 179(1):682-690(2007)