

**SAG Blocking Peptide (C-Term)**  
**Synthetic peptide**  
**Catalog # BP21724b**

**Specification**

**SAG Blocking Peptide (C-Term) - Product Information**

Primary Accession [P10523](#)

**SAG Blocking Peptide (C-Term) - Additional Information**

**Gene ID** 6295

**Other Names**

S-arrestin, 48 kDa protein, Retinal S-antigen, S-AG, Rod photoreceptor arrestin, SAG

**Target/Specificity**

The synthetic peptide sequence is selected from aa 293-307 of HUMAN SAG

**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.

**SAG Blocking Peptide (C-Term) - Protein Information**

**Name** SAG

**Function**

Binds to photoactivated, phosphorylated RHO and terminates RHO signaling via G-proteins by competing with G-proteins for the same binding site on RHO (By similarity). May play a role in preventing light-dependent degeneration of retinal photoreceptor cells (PubMed:<a href="http://www.uniprot.org/citations/9565049" target="\_blank">9565049</a>).

**Cellular Location**

Cell projection, cilium, photoreceptor outer segment. Membrane {ECO:0000250|UniProtKB:P20443}; Peripheral membrane protein {ECO:0000250|UniProtKB:P20443}. Note=Highly expressed in photoreceptor outer segments in light-exposed retina. Evenly distributed throughout rod photoreceptor cells in dark-adapted retina (By similarity) Predominantly detected at the proximal region of photoreceptor outer segments, near disk membranes (PubMed:3720866) {ECO:0000250|UniProtKB:P08168, ECO:0000269|PubMed:3720866}

**Tissue Location**

Detected in retina, in the proximal portion of the outer segment of rod photoreceptor cells (at protein level)

### **SAG Blocking Peptide (C-Term) - Protocols**

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

- [Blocking Peptides](#)

### **SAG Blocking Peptide (C-Term) - Images**

### **SAG Blocking Peptide (C-Term) - Background**

Arrestin is one of the major proteins of the ros (retinal rod outer segments); it binds to photoactivated- phosphorylated rhodopsin, thereby apparently preventing the transducin-mediated activation of phosphodiesterase.

### **SAG Blocking Peptide (C-Term) - References**

Yamaki K.,et al.FEBS Lett. 234:39-43(1988).  
Yamaki K.,et al.FEBS Lett. 236:507-507(1988).  
Yamamoto S.,et al.Nat. Genet. 15:175-178(1997).  
Hillier L.W.,et al.Nature 434:724-731(2005).  
Roni V.,et al.BMC Genomics 8:42-42(2007).