

SAG Antibody (C-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21724b**Specification**

SAG Antibody (C-Term) - Product Information

Application	WB,E
Primary Accession	P10523
Reactivity	Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	45120
Antigen Region	273-307

SAG Antibody (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

This SAG antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 273-307 amino acids from the human SAG.

Dilution

WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SAG Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

SAG Antibody (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:[9565049](#)).

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

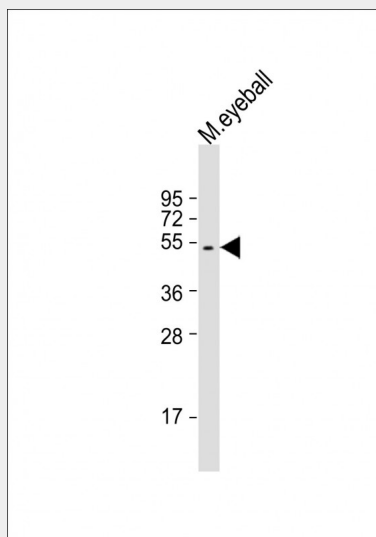
Detected in retina, in the proximal portion of the outer segment of rod photoreceptor cells (at protein level)

SAG Antibody (C-Term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SAG Antibody (C-Term) - Images



Anti-SAG Antibody (C-Term) at 1:2000 dilution + mouse eyeball lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

SAG Antibody (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 Antibody (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).