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SAG Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21724b

Product Information

Application	WB, E
Primary Accession	P10523
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB53546
Calculated MW	45120

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 E~~Use at an assay dependent concentration.
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.

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 dectected 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)

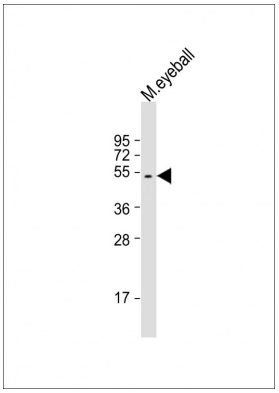
Background

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.

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).

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.