

SAG / Arrestin Antibody (clone S128)
Mouse Monoclonal Antibody
Catalog # ALS16828**Specification**

SAG / Arrestin Antibody (clone S128) - Product Information

Application	WB, IHC-P, IF
Primary Accession	P10523
Other Accession	6295
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1,k
Calculated MW	45120
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200

SAG / Arrestin Antibody (clone S128) - Additional Information**Gene ID** 6295**Other Names**

SAG, 48 kDa protein, Arrestin 1, ARRESTIN, S-arrestin, S-AG, Retinal S-antigen, Rod photoreceptor arrestin, S-antigen, RP47

Target/Specificity

Clone S128 is known to react with visual arrestin from human, bovine, mouse, pig and rat.

Reconstitution & Storage

PBS, 10 mM sodium azide. +4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

SAG / Arrestin Antibody (clone S128) is for research use only and not for use in diagnostic or therapeutic procedures.

SAG / Arrestin Antibody (clone S128) - 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)

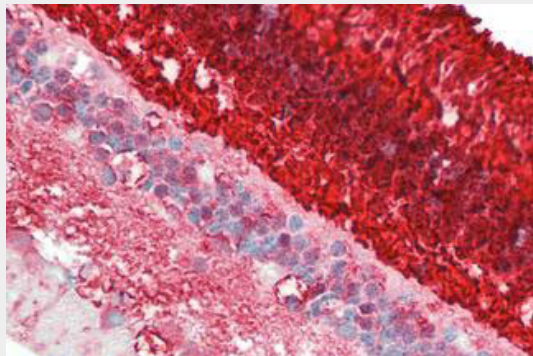
Volume

50 µl

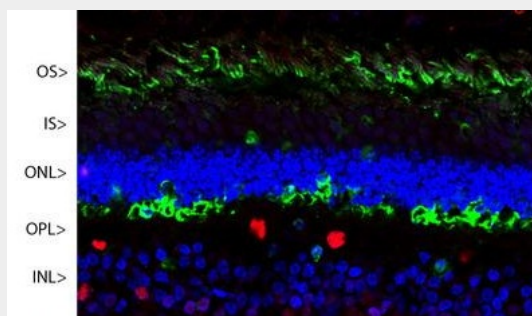
SAG / Arrestin Antibody (clone S128) - Protocols

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

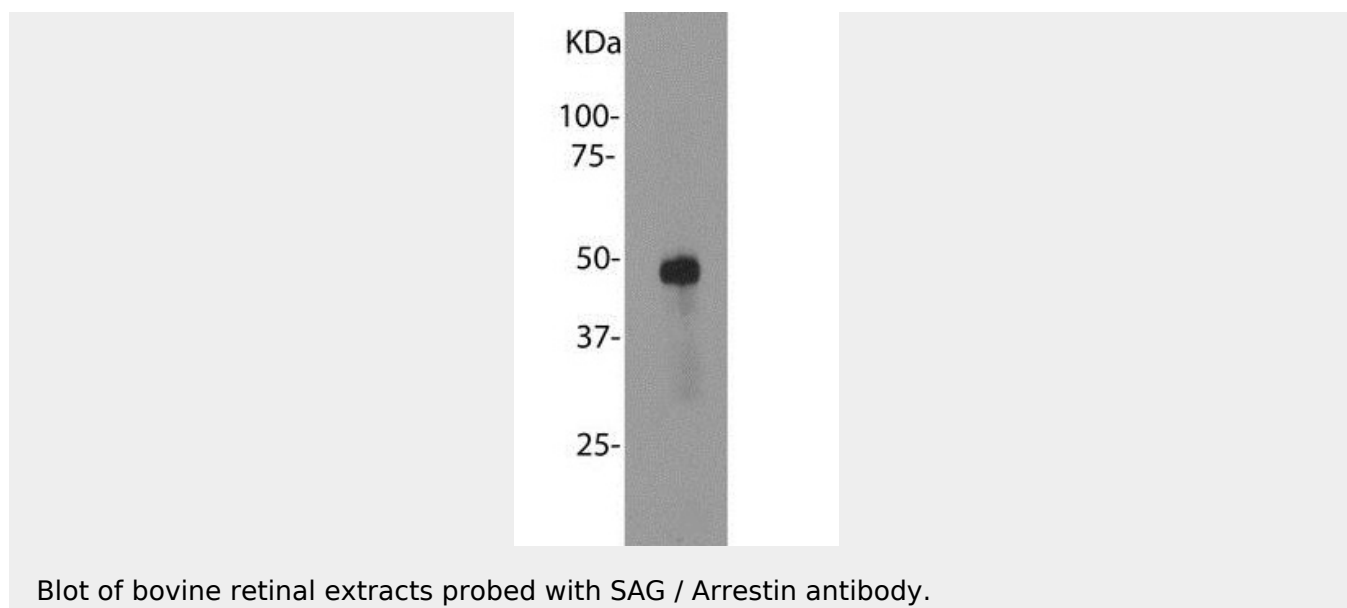
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SAG / Arrestin Antibody (clone S128) - Images

Anti-SAG / Arrestin antibody IHC staining of human retina.



Confocal image of a pig retina stained with SAG / Arrestin antibody (green).

**SAG / Arrestin Antibody (clone S128) - 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 / Arrestin Antibody (clone S128) - 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).