

ARR3 Antibody
Catalog # ASC11747**Specification**

ARR3 Antibody - Product Information

Application	WB
Primary Accession	P36575
Other Accession	NP_004303 , 156071467
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 43 kDa
Application Notes	Observed: 47 kDa KDa ARR3 antibody can be used for detection of ARR3 by Western blot at 0.5 - 1 µg/ml.

ARR3 Antibody - Additional Information

Gene ID 407

Target/Specificity

ARR3; ARR3 antibody is human, mouse and rat reactive. At least three isoforms of ARR3 are known to exist. This antibody is predicted to not cross-react with other members of the arrestin protein family.

Reconstitution & Storage

ARR3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

ARR3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ARR3 Antibody - Protein Information**Name** ARR3**Synonyms** ARRX, CAR**Function**

May play a role in an as yet undefined retina-specific signal transduction. Could bind to photoactivated-phosphorylated red/green opsins.

Cellular Location

Photoreceptor inner segment {ECO:0000250|UniProtKB:Q9EQP6}. Cell projection, cilium, photoreceptor outer segment {ECO:0000250|UniProtKB:Q9EQP6}

Tissue Location

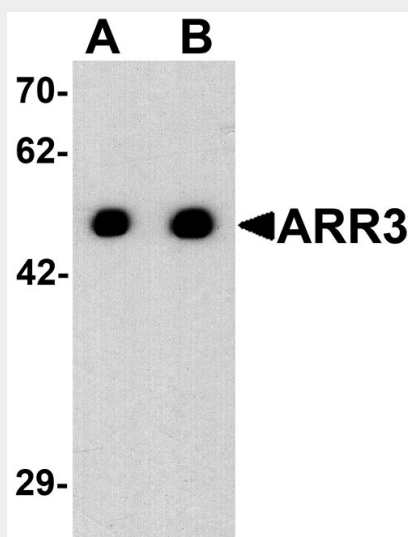
Inner and outer segments, and the inner plexiform regions of the retina

ARR3 Antibody - 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](#)

ARR3 Antibody - Images



Western blot analysis of ARR3 in EL4 cell lysate with ARR3 antibody at (A) 0.5 and (B) 1 µg/ml.

ARR3 Antibody - Background

Arrestin 3 (ARR3) belongs to the Arrestin family of proteins that function as negative regulators of G protein-coupled receptor (GPCR) signaling (1,2). ARR3 binds the c-Jun N-terminal kinase 3 (JNK3) and scaffolds the apoptosis signal-regulating kinase 1 (ASK1)-MAPK kinase4-JNK3 cascade in a receptor-independent fashion, promoting JNK3 phosphorylation (3,4). ARR3 also mediates the internalization of the C-C chemokine receptor CCR7 upon the binding of its ligand CCL19, but not CCL21, suggesting that it helps mediate CCR7 receptor desensitization (5).

ARR3 Antibody - References

Murakami A, Yajima T, Sakuma H, et al. X-arrestin: a new retinal arrestin mapping to the X chromosome. *FEBS Lett.* 1993; 334:203-9.
Gurevich VV and Gurevich EV. The structural basis of arrestin-mediated regulation of G-protein-coupled receptors. *Pharmacol. Ther.* 2006; 110:465-502.
Song X, Coffa S, Fu H, et al. How does arrestin assemble MAPKs into a signaling complex? *J. Biol. Chem.* 2009; 284:685-95.
Seo J, Tsakem EL, Breitman M, et al. Identification of arrestin-3-specific residues necessary for JNK3 kinase activation. *J. Biol. Chem.* 2011; 286:27894-901.