

**RPGR Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12226b****Specification**

---

**RPGR Antibody (C-term) Blocking peptide - Product Information**Primary Accession [Q92834](#)**RPGR Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 6103**Other Names**

X-linked retinitis pigmentosa GTPase regulator, RPGR, RP3, XLRP3

**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.

**RPGR Antibody (C-term) Blocking peptide - Protein Information****Name** RPGR**Synonyms** RP3, XLRP3**Function**

Could be a guanine-nucleotide releasing factor. Plays a role in ciliogenesis. Probably regulates cilia formation by regulating actin stress filaments and cell contractility. Plays an important role in photoreceptor integrity. May play a critical role in spermatogenesis and in intraflagellar transport processes (By similarity). May be involved in microtubule organization and regulation of transport in primary cilia.

**Cellular Location**

Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:Q9R0X5}. Golgi apparatus. Cell projection, cilium {ECO:0000250|UniProtKB:Q9R0X5}. Note=In the retinal photoreceptor cell layer, localizes at the connecting cilium (By similarity). Colocalizes with WHRN in the photoreceptor connecting cilium (By similarity) Colocalizes with CEP290 in the photoreceptor connecting cilium (By similarity). Colocalizes with RPGRIP1 in the photoreceptor connecting cilium (By similarity). {ECO:0000250|UniProtKB:Q9R0X5}

**Tissue Location**

Heart, brain, placenta, lung, liver, muscle, kidney, retina, pancreas and fetal retinal pigment

epithelium. Isoform 3 is found only in the retina. Colocalizes with RPGRIP1 in the outer segment of rod photoreceptors and cone outer segments

### **RPGR Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **RPGR Antibody (C-term) Blocking peptide - Images**

### **RPGR Antibody (C-term) Blocking peptide - Background**

This gene encodes a protein with a series of six RCC1-like domains (RLDs), characteristic of the highly conserved guanine nucleotide exchange factors. The encoded protein is found in the Golgi body and interacts with RPGRIP1. This protein localizes to the outer segment of rod photoreceptors and is essential for their viability. Mutations in this gene have been associated with X-linked retinitis pigmentosa (XLRP). Multiple alternatively spliced transcript variants that encode different isoforms of this gene have been reported, but the full-length nature of only some have been determined.

### **RPGR Antibody (C-term) Blocking peptide - References**

Clark, G.R., et al. Ophthalmology 117(11):2169-2177(2010) Schmid, F., et al. Invest. Ophthalmol. Vis. Sci. 51(3):1628-1635(2010) Ji, Y., et al. Curr. Eye Res. 35(1):73-79(2010) Sheng, X., et al. Mol. Vis. 16, 1620-1628 (2010) :Murga-Zamalloa, C.A., et al. J. Genet. 88(4):399-407(2009)