

(DANRE) rho Antibody (N-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21294a

Specification

(DANRE) rho Antibody (N-Term) - Product Information

Application	WB,E
Primary Accession	P35359
Reactivity	Zebrafish
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	39706
Antigen Region	62-93

(DANRE) rho Antibody (N-Term) - Additional Information

Gene ID 30295

Other Names

Rhodopsin, rho, zfo2

Target/Specificity

This DANRE rho antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 62-93 amino acids from the human region of DANRE rho.

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

(DANRE) rho Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

(DANRE) rho Antibody (N-Term) - Protein Information

Name rho

Synonyms zfo2

Function Photoreceptor required for image-forming vision at low light intensity. While most salt

water fish species use retinal as chromophore, most freshwater fish use 3-dehydroretinal, or a mixture of retinal and 3-dehydroretinal (By similarity). Light-induced isomerization of 11-cis to all-trans retinal triggers a conformational change that activates signaling via G-proteins. Subsequent receptor phosphorylation mediates displacement of the bound G-protein alpha subunit by arrestin and terminates signaling (By similarity).

Cellular Location

Membrane {ECO:0000250|UniProtKB:P08100}; Multi- pass membrane protein {ECO:0000250|UniProtKB:P08100}. Cell projection, cilium, photoreceptor outer segment
Note=Synthesized in the inner segment (IS) of rod photoreceptor cells before vectorial transport to disk membranes in the rod outer segment (OS) photosensory cilia.
{ECO:0000250|UniProtKB:P08100}

Tissue Location

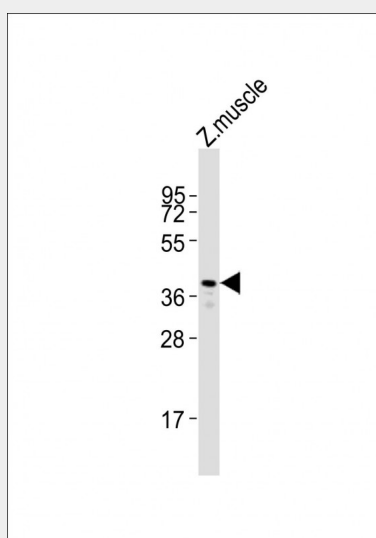
Retinal rod photoreceptor cells, predominantly in the outer segments (at protein level) (PubMed:10349976). Retinal rod photoreceptor cells (PubMed:8327475, PubMed:8603882)

(DANRE) rho Antibody (N-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](#)

(DANRE) rho Antibody (N-Term) - Images



Anti-rho Antibody (N-Term) at 1:2000 dilution + zebrafish muscle whole cell lysates
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated
at 1/10000 dilution Predicted band size : 40 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

(DANRE) rho Antibody (N-Term) - Background

Visual pigments such as rhodopsin and porphyropsin are light-absorbing molecules that mediate vision. Rhodopsin consists of an apoprotein, opsin, covalently linked to 11-cis-retinal. This receptor is coupled to the activation of phospholipase C. Porphyropsin consists of opsin covalently linked to 11-cis 3,4- didehydroretinal.

(DANRE) rho Antibody (N-Term) - References

Robinson J.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:6009-6012(1993).
Robinson J.,et al.Vis. Neurosci. 12:895-906(1995).
Schmitt E.A.,et al.Vis. Neurosci. 16:601-605(1999).
Vihtelic T.S.,et al.Vis. Neurosci. 16:571-585(1999).
Kennedy B.N.,et al.J. Biol. Chem. 276:14037-14043(2001).