10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Zebrafish rho Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21294a

Specification

Zebrafish rho Antibody (N-Term) - Product Information

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

Zebrafish rho Antibody (N-Term) - Additional Information

Gene ID 30295

Other Names
Rhodopsin, rho, zfo2

Target/Specificity
This Zebrafish rho antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 62-93 amino acids from zebrafish rho.

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

Zebrafish 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}

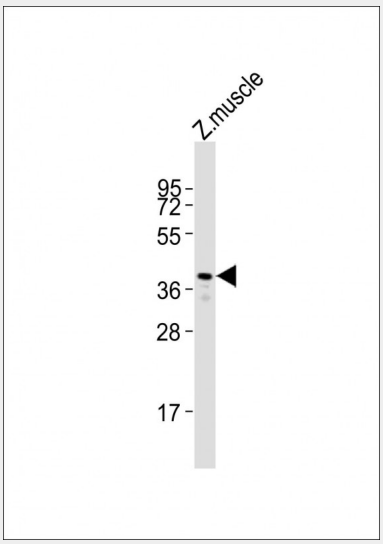
Tissue Location
Retinal rod photoreceptor cells, predominantly in the outer segments (at protein level) (PubMed:10349976). Retinal rod photoreceptor cells (PubMed:8327475, PubMed:8603882)

Zebrafish 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 Cytomety
- Cell Culture

Zebrafish 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% NFDM/TBST.

Zebrafish 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.

Zebrafish rho Antibody (N-Term) - References

Robinson J.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:6009-6012(1993).
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