

Resource Summary Report

Generated by [RRID](#) on Aug 12, 2026

Rhodopsin antibody [1D4]

RRID:AB_304874

Type: Antibody

Proper Citation

Abcam Cat# ab5417, RRID:AB_304874

Antibody Information

URL: http://antibodyregistry.org/AB_304874

Proper Citation: Abcam Cat# ab5417, RRID:AB_304874

Target Antigen: Rhodopsin antibody [1D4]

Host Organism: mouse

Clonality: monoclonal

Comments: validation status unknown, seller recommendations provided in 2012: Immunohistochemistry; Western Blot; Immunohistochemistry - frozen; Immunocytochemistry; Immunoprecipitation; ICC, IHC-FoFr, IP, WB

Antibody Name: Rhodopsin antibody [1D4]

Description: This monoclonal targets Rhodopsin antibody [1D4]

Target Organism: rat, cow, mouse, zebrafishfish, bovine, zebrafish, human

Antibody ID: AB_304874

Vendor: Abcam

Catalog Number: ab5417

Record Creation Time: 20250820T052604+0000

Record Last Update: 20250820T213329+0000

Ratings and Alerts

No rating or validation information has been found for Rhodopsin antibody [1D4].

No alerts have been found for Rhodopsin antibody [1D4].

Data and Source Information

Source: [Antibody Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Barrett LM, et al. (2026) A potential cis-regulatory element regulates differential expression of long wavelength-sensitive opsins in zebrafish. *Scientific reports*, 16(1).

Partinen J, et al. (2025) Phagocytosed Photoreceptor Outer Segment Particles Within the Retinal Pigment Epithelium Show Diurnal Rhythmicity and Variation Between Cone Subtypes in Larval Zebrafish. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(14), e70853.

Enayati S, et al. (2024) Optimal transcorneal electrical stimulation parameters for preserving photoreceptors in a mouse model of retinitis pigmentosa. *Neural regeneration research*, 19(11), 2543.

Castiglione GM, et al. (2023) Convergent evolution of dim light vision in owls and deep-diving whales. *Current biology : CB*, 33(21), 4733.

Rodgers J, et al. (2023) Modulating signalling lifetime to optimise a prototypical animal opsin for optogenetic applications. *Pflugers Archiv : European journal of physiology*, 475(12), 1387.

Zhu JY, et al. (2023) Hyperglycemia-regulated tRNA-derived fragment tRF-3001a propels neurovascular dysfunction in diabetic mice. *Cell reports. Medicine*, 4(10), 101209.

Ramachandra Rao S, et al. (2023) A simple, rapid fluorescent reporter-based method for detection of ectopic cre recombinase expression in presumed retinal cell type-targeted mouse lines. *Experimental eye research*, 235, 109637.

Li L, et al. (2023) Mettl14-mediated m6A modification ensures the cell-cycle progression of late-born retinal progenitor cells. *Cell reports*, 42(6), 112596.

Li J, et al. (2022) Repair of Retinal Degeneration by Human Amniotic Epithelial Stem Cell-Derived Photoreceptor-like Cells. *International journal of molecular sciences*, 23(15).

Li X, et al. (2022) Targeting long noncoding RNA-AQP4-AS1 for the treatment of retinal neurovascular dysfunction in diabetes mellitus. *EBioMedicine*, 77, 103857.

Zhang X, et al. (2022) MLL5 is involved in retinal photoreceptor maturation through facilitating CRX-mediated photoreceptor gene transactivation. *iScience*, 25(4), 104058.

Haverkamp S, et al. (2022) No evidence for age-related alterations in the marmoset retina. *Frontiers in neuroanatomy*, 16, 945295.

Fortenbach C, et al. (2021) Loss of the K⁺ channel Kv2.1 greatly reduces outward dark current and causes ionic dysregulation and degeneration in rod photoreceptors. *The Journal of general physiology*, 153(2).

Zhu J, et al. (2021) CRISPR/Cas9-mediated grna gene knockout leads to neurodevelopmental defects and motor behavior changes in zebrafish. *Journal of neurochemistry*, 157(3), 520.

Li J, et al. (2021) Human Amniotic Epithelial Stem Cell-Derived Retinal Pigment Epithelium Cells Repair Retinal Degeneration. *Frontiers in cell and developmental biology*, 9, 737242.

Toulis V, et al. (2020) The Deubiquitinating Enzyme Ataxin-3 Regulates Ciliogenesis and Phagocytosis in the Retina. *Cell reports*, 33(6), 108360.

Emam A, et al. (2020) Retinal morphology in *Astyanax mexicanus* during eye degeneration. *The Journal of comparative neurology*, 528(9), 1523.

Yi Z, et al. (2020) Comparative exome sequencing reveals novel candidate genes for retinitis pigmentosa. *EBioMedicine*, 56, 102792.

Rawlinson KA, et al. (2019) Extraocular, rod-like photoreceptors in a flatworm express xenopsin photopigment. *eLife*, 8.

Ballister ER, et al. (2018) A live cell assay of GPCR coupling allows identification of optogenetic tools for controlling G_o and G_i signaling. *BMC biology*, 16(1), 10.