Resource Summary Report

Generated by RRID on Aug 12, 2026

Mouse Anti-Rhodopsin Monoclonal Antibody, Unconjugated, Clone 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

Host Organism: mouse

Clonality: monoclonal

Comments: validation status unknown, seller recommendations provided in 2012: Immunocytochemistry; Immunoprecipitation; Western Blot; Immunocytochemistry, Immunohistochemistry-FoFr, Immunoprecipitation, Western Blot

Antibody Name: Mouse Anti-Rhodopsin Monoclonal Antibody, Unconjugated, Clone 1D4

Description: This monoclonal targets Rhodopsin

Target Organism: bovine, human

Clone ID: Clone 1D4

Antibody ID: AB_304874

Vendor: Abcam

Catalog Number: ab5417

Record Creation Time: 20250819T225843+0000

Record Last Update: 20250820T035446+0000

Ratings and Alerts

No rating or validation information has been found for Mouse Anti-Rhodopsin Monoclonal Antibody, Unconjugated, Clone 1D4.

No alerts have been found for Mouse Anti-Rhodopsin Monoclonal Antibody, Unconjugated, Clone 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 Go and Gi signaling. BMC biology, 16(1), 10.