## 825 Store at -200

## Rhodopsin (D1N7X) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 37, 75, 150	Source/Isotype: Rabbit IgG	UniProt ID: #P08100	Entrez-Gene Id: 6010
Product Usage Information		Application Western Blotting		<b>Dilution</b> 1:1000		
Storage	Sup	Immunoprecipitation 1:50  Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		Rhodopsin (D1N7X) Rabbit mAb recognizes endogenous levels of total rhodopsin protein.				
Species predicted react based on 10 sequence homological contracts and contracts are contracted by the contract of the contrac	0%	nan				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human rhodopsin protein.				
Background		Rhodopsin is the photoreceptor in the retinal rods. It is activated by photons, transduces visual information through its cognate G protein, transducin, and is inactivated by arrestin binding (1). Using atomic-force microscopy, rhodopsin was found to be arranged into paracrystalline arrays of dimers in mouse disc membranes (2). Rhodopsin is considered to be the prototype of G protein-coupled receptors (GPCRs), and is the first GPCR for which a crystal structure was solved (3). Research studies have linked mutations in the gene encoding rhodopsin to retinitis pigmentosa (4,5), a disease characterized by retinal degeneration resulting in reduced peripheral vision and night blindness (6).				
Background Refe	2. F 3. P 4. R 5. W	<ol> <li>Arshavsky, V.Y. and Burns, M.E. (2012) J Biol Chem 287, 1620-6.</li> <li>Fotiadis, D. et al. (2003) Nature 421, 127-8.</li> <li>Palczewski, K. et al. (2000) Science 289, 739-45.</li> <li>Rivolta, C. et al. (2002) Hum Mol Genet 11, 1219-27.</li> <li>Wilson, J.H. and Wensel, T.G. (2003) Mol Neurobiol 28, 149-58.</li> <li>Hartong, D.T. et al. (2006) Lancet 368, 1795-809.</li> </ol>				

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting IP: Immunoprecipitation

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Rhodopsin (D1N7X) Rabbit mAb (#14825) Datasheet Without Images Cell Signaling Technology

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