ន្ត Rhodopsin (D1N7X) Rabbit mAb





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Applications: W, IP	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 37, 75, 150	Source/Isotype: Rabbit IgG	UniProt ID: #P08100	Entrez-Gene Id: 6010	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
Storage		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/Sensi	tivity	Rhodopsin (D1N7X) Rabbit mAb recognizes endogenous levels of total rhodopsin protein.					
Species predicte based on 100% s homology	d to react equence	Human					
Source / Purifica	tion	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 Ref	erences	1. Arshavsky, V.Y. and Burns, M.E. (2012) <i>J Biol Chem</i> 287, 1620-6. 2. Fotiadis, D. et al. (2003) <i>Nature</i> 421, 127-8. 3. Palczewski, K. et al. (2000) <i>Science</i> 289, 739-45. 4. Rivolta, C. et al. (2002) <i>Hum Mol Genet</i> 11, 1219-27. 5. Wilson, J.H. and Wensel, T.G. (2003) <i>Mol Neurobiol</i> 28, 149-58. 6. Hartong, D.T. et al. (2006) <i>Lancet</i> 368, 1795-809.					
Species Reactivi	ty	Species reactivity is deter	rmined by testing	in at least one approved	l application (e.g., v	vestern blot).	
Western Blot Bu	ffer	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	,	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity	Кеу	M: Mouse R: Rat					
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