Product Datasheet

Rhodopsin Antibody (1D4) - BSA Free
NBP1-47602-0.025mg

Unit Size: 0.025 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 5

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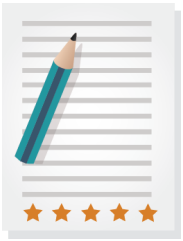
Updated 2/21/2025 v.20.1



NBP1-47602-0.025mg

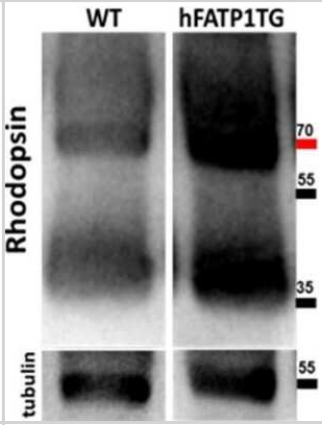
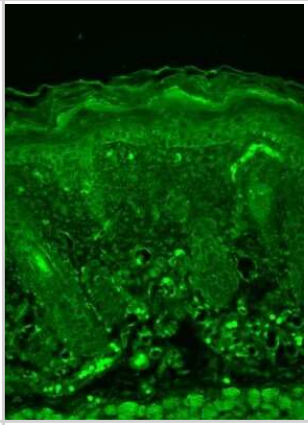
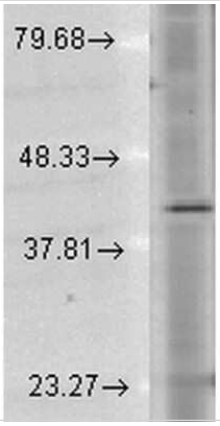
Rhodopsin Antibody (1D4) - BSA Free

Product Information	
Unit Size	0.025 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1D4
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4), 50% Glycerol

Product Description	
Description	Proteins containing the epitope tag can be selectively bound to a Rho 1D4 affinity matrix and eluted using an excess of -T-E-T-S-Q-V-A-P-A- peptide under mild conditions.
Host	Mouse
Gene ID	6010
Gene Symbol	RHO
Species	Human, Mouse, Bovine, Vertebrate
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28672005).
Specificity/Sensitivity	Detects ~40kDa. Recognizes Rhodopsin (native and recombinant forms). No known reactivity to other proteins. Binds specifically to the C-terminal epitope -T-E-T-S-Q-V-A-P-A-(COOH).
Immunogen	Bovine Rhodopsin
Notes	Proteins containing the epitope tag can be selectively bound to a Rho 1D4 affinity matrix and eluted using an excess of -T-E-T-S-Q-V-A-P-A- peptide under mild conditions.

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, ELISA 1:100-1:2000, Immunohistochemistry 1:100, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:10-1:500
Application Notes	1 ug/ml of Rhodopsin Antibody was sufficient for detection of rhodopsin in 10 ug of rat eye lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary Antibody.

Images

Western Blot: Rhodopsin Antibody (1D4) [NBP1-47602] - Quantification of rhodopsin protein (western blot) levels in the neural retina of WT (n = 7) and hFATP1TG (n = 8) mice. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/28672005/) licensed under a CC-BY license.	
Immunohistochemistry: Rhodopsin Antibody (1D4) [NBP1-47602] - Immunohistochemistry analysis using Mouse Anti-Rhodopsin Monoclonal Antibody, Clone 1D4 (NBP1-47602). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Rhodopsin Monoclonal Antibody (NBP1-47602) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Dull epidermal staining.	
Western Blot: Rhodopsin Antibody (1D4) [NBP1-47602] - Western Blot analysis of Human Cell lysates showing detection of Rhodopsin protein using Mouse Anti-Rhodopsin Monoclonal Antibody, Clone 1D4 (NBP1-47602). Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Rhodopsin Monoclonal Antibody (NBP1-47602) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.	

Publications

Knuth CM, Barayan D, Lee JH et Al. Subcutaneous white adipose tissue independently regulates burn-induced hypermetabolism via immune-adipose crosstalk Cell Rep 2024-01-31 [PMID: 38117653]

Daniloski Z, Jordan TX, Ilmain JK et al. The Spike D614G mutation increases SARS-CoV-2 infection of multiple human cell types eLife 2021-02-11 [PMID: 33570490] (Human)

Daniloski Z, Guo X, Sanjana NE The D614G mutation in SARS-CoV-2 Spike increases transduction of multiple human cell types bioRxiv 2020-06-15 [PMID: 32587969] (WB, IP, Human)

Ramachandra Rao S, Fliesler SJ, Kotla P et al. Lack of Overt Retinal Degeneration in a K42E Dhdds Knock-In Mouse Model of RP59 Cells 2020-04-07 [PMID: 32272552] (IF/IHC, Mouse)

Cubizolle A, Guillou L, Mollereau B et al. Fatty acid transport protein 1 regulates retinoid metabolism and photoreceptor development in mouse retina PLoS ONE 2017-07-03 [PMID: 28672005] (WB, Mouse)

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