Anti-Rhodopsin [Rho 1D4] Bulk Size Ab00337-6.1-BT

This chimeric rat antibody was made using the variable domain sequences of the original mouse IgG1 format for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG1, Kappa
Clone Number: Rho 1D4
Alternative Name(s) of Target: Rho-tag; Visual Purple
UniProt Accession Number of Target Protein: P08100
Published Application(s): IP, Radioimmune labeling, WB, ELISA, IF, IHC
Published Species Reactivity: Cow, Human, Zebrafish, Amphibians, Rat, Mouse
Immunogen: Bleached bovine rod outer segment (ROS).
Specificity: The antibody binds to the C-terminus of rhodopsin on the cytoplasmic side of disk membranes. The epitope has the following amino acid sequence: 'TETSQVAPA'. A limitation of the 1D4 tag, however, is that it has to be placed at the C-terminus of a protein. This is because the Rho1D4 monoclonal antibody requires a free carboxylate group for high affinity binding. Amidation of the carboxyl group lowers its immunoreactivity to the Rho1D4 antibody by over 100 fold.
Application Notes: The antibody binds to the C-terminus of rhodopsin on the cytoplasmic side of disk membranes. Rhodopsin is the major pigment in rod photoreceptors and belongs to the family of G-protein-coupled receptors (GPCRs). The linear epitope (TETSQVAPA) can be used as a protein tag.
Antibody First Published in: Molday et al. 1983 Monoclonal antibodies to rhodopsin: characterization, corss-reactivity, and applicatoin as sturctural probes. Biochemistry, 1983; 22(3):653-660 PMID:6188482
Note on publication: Describes the generation of two monoclonal antibodies from hybridoma.

Product Form

Size: 1 mg Purified antibody in bulk size.
Purification: Protein A affinity purified
Supplied In: PBS only.
Storage Recommendation: Store at 4^{o}C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20^{o}C.
Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic

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procedures for humans or animals.

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