

QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

Anti-Rhodopsin Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56481 (clone 4D2)
Size: 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

BACKGROUND

Rhodopsin is comprised of the protein opsin and a reversibly covalently bound cofactor, retinal. Opsin, made up of seven membrane-embedded alpha helices, binds retinal, a photoreactive chromophore, in a central pocket. In addition to being the pigment of the retina that is responsible for the formation of photoreceptor cells, rhodopsin conveys information stored in the chromophore to the surface of the molecule upon light absorption. Mutations in the rhodopsin gene lead to retinitis pigmentosa.

SPECIFICATION SUMMARY

Antigen: Bovine rhodopsin

Host Species: Mouse

Antibody Class: IgG1

SPECIFICITY

This antibody recognizes the N-terminus of Rhodopsin from all mammalian species tested (human, mouse, rat, bovine, porcine), and most fish, birds, and amphibians.

APPLICATIONS

Immunoblotting: use at 1-10ug/ml. A band of ~40kDa is detected.

Immunohistochemistry: use at 1-10ug/ml, paraffin-embedded and frozen.

Immunoprecipitation: use at 1-2ug per 100-500ug of protein.

These are recommended concentrations. User should determine optimal concentrations for their application.

Positive control: Rat eye lysate

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.