

## Product datasheet for **TA385916**

### Rhodopsin (RHO) Mouse Monoclonal Antibody [Clone ID: Rho 1D4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	Rho 1D4
Applications:	ELISA, IF, IHC, IP, WB
Reactivity:	Mouse, Rat, Cow, Human, Zebrafish
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Bleached bovine rod outer segment (ROS).
Specificity:	<p>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.</p> <p>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.</p>
Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles.
Stability:	3 years from dispatch.
Gene Name:	rhodopsin
Database Link:	<a href="#">Entrez Gene 6010 Human P08100</a>



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**Synonyms:** CSNBAD1; MGC138309; MGC138311; OPN2; Opsin-2; rhodopsin; RP4

**Note:** This is a chimeric antibody created for improved compatibility with existing reagents, assays and techniques.