

# Product Datasheet

## Rhodopsin Antibody (Rho 1D4) - Chimeric - Azide and BSA Free NBP3-09001-0.2mg

Unit Size: 0.2 mg

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

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/NBP3-09001](http://www.novusbio.com/NBP3-09001)

Updated 9/9/2025 v.20.1

Earn rewards for product reviews and publications.

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/NBP3-09001](http://www.novusbio.com/reviews/destination/NBP3-09001)



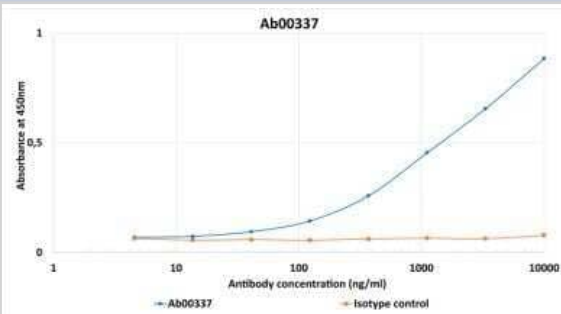
**NBP3-09001-0.2mg**

Rhodopsin Antibody (Rho 1D4) - Chimeric - Azide and BSA Free

Product Information	
<b>Unit Size</b>	0.2 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	Rho 1D4
<b>Preservative</b>	0.02% Proclin 300
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS
Product Description	
<b>Description</b>	Novus Biologicals Mouse Rhodopsin Antibody (Rho 1D4) - Chimeric - Azide and BSA Free (NBP3-09001) is a recombinant monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	6010
<b>Gene Symbol</b>	RHO
<b>Species</b>	Human, Mouse, Rat, Amphibian, Bovine, Zebrafish
<b>Specificity/Sensitivity</b>	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.
<b>Immunogen</b>	Bleached bovine rod outer segment (ROS).
Product Application Details	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Radioimmunoassay
<b>Recommended Dilutions</b>	Western Blot, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Radioimmunoassay
<b>Application Notes</b>	<p>This is a chimeric antibody created for improved compatibility with existing reagents, assays and techniques.</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>

## Images

ELISA: Rhodopsin Antibody (Rho 1D4) - Chimeric [NBP3-09001] - Using 1D4 (Ab00337) and Multi Tag protein 2. Binding curves of the mouse IgG1 chimeric version of the Rhodopsin antibody 1D4 (Ab00337-1.1; dark blue line) and isotype control (Ab00102-1.1, anti-fluorescein; orange line) to an ELISA plate coated with Multi Tag protein 2 (Pr00565, Absolute Antibody) at a concentration of 5 ug/ml. Ab02007 antibody was titrated on a 3-fold serial dilution starting at 10,000 ng/mL. Anti-mouse IgG was used as secondary antibody for detection at a dilution of 1:4,000.





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP3-09001-0.2mg**

---

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

---

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)

Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/NBP3-09001](http://www.novusbio.com/reviews/submit/NBP3-09001)

Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)

