

Product Datasheet

RFP Antibody (RFP40) - VHH - BSA Free NBP3-12167

Unit Size: 50 ug

Store at -20C. Avoid freeze-thaw cycles.

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NBP3-12167

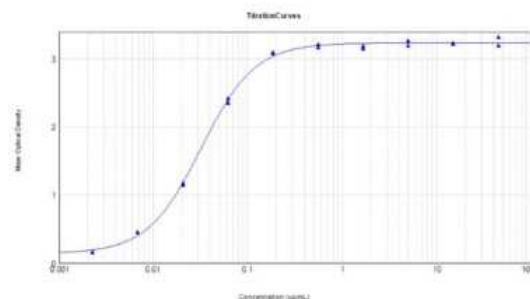
RFP Antibody (RFP40) - VHH - BSA Free

Product Information	
Unit Size	50 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	RFP40
Preservative	0.01% Sodium Azide
Purity	Affinity purified
Buffer	1X PBS, pH 7.4, 20% (v/v) Glycerol
Product Description	
Description	This recombinant antibody clone was isolated from a library prepared from a hyper-immunized llama host and purified by affinity chromatography from bacterial culture (E. coli).. Store at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.
Host	Llama
Species	Invertebrate
Reactivity Notes	Sea anemone (Discosoma sp)
Specificity/Sensitivity	Expect reactivity against RFP-labeled probes and proteins.
Immunogen	RFP
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Dot Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	ELISA 1:31000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50-1:200, Dot Blot 1 ug/ml
Application Notes	This product is a his-tagged monoclonal recombinant antibody designed to detect Red Fluorescent Protein and its conjugates. This antibody has been tested by dot blot and ELISA and is intended for use in immunological assays including ELISA, immunofluorescence and fluorescence activated cell sorting (FACS). The antibody can be labeled with dyes, enzymes or fluorescence, directly or secondarily, for visualization and detection of RFP-conjugated molecules by immunofluorescence. Secondary detection can be achieved using conjugated anti-His tag or anti-VHH antibodies. Optimal titers for applications should be confirmed by the end user. This antibody is not suitable for Western blot detection of denatured RFP.

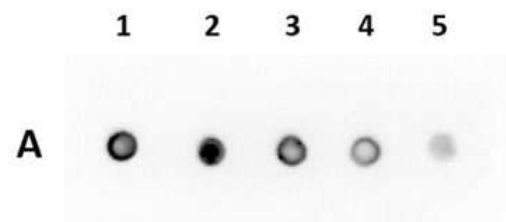


Images

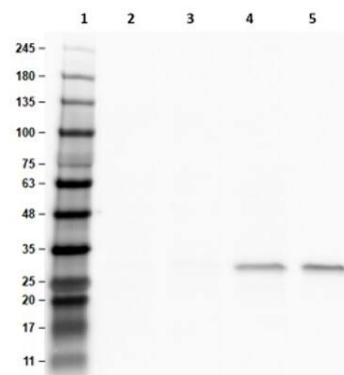
ELISA: RFP Antibody (RFP40) - VHH - BSA Free [NBP3-12167] - ELISA Results of RFP antibody (RFP40) reactive against RFP. The working dilution for clone RFP40 is 1:31000. Each well was coated in duplicate with 1.0ug of RFP. The starting dilution of antibody was 45 ug/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% Fish Gel/PBS blocking buffer. Mouse Anti-FLAG Tag HRP conjugated Antibody and TMB substrate.



Dot Blot: RFP Antibody (RFP40) - VHH - BSA Free [NBP3-12167] - Row A: Recombinant RFP protein. Amount Dotted: (1) 200, (2) 100, (3) 50, (4) 25, (5) 12.5ng. Primary Antibody: 1.0ug/mL for 1.0hr at RT. Secondary Antibody: Mouse Anti-Flag Peroxidase at 1:5000 for 30 mins at RT. Block: BlockOut Buffer.. Exposure: 10 seconds.



Western Blot Results of RFP Antibody (RFP40) - VHH - BSA Free. Lane 1: Opal Prestained Molecular Weight . Lane 2: HEK293 Whole Cell Lysate [10ug] (-). Lane 3: HEK293 Whole Cell Lysate [10ug] + GFP rec. protein [1ug] (-). Lane 4: HEK293 Whole Cell Lysate [10ug] + RFP rec. protein [1ug] (+). Lane 5: RFP rec. protein [1ug] (+). Primary Antibody: RFP Antibody (RFP40) - VHH - BSA Free at 1:1000 for overnight at 4°C. Secondary Antibody: Mouse Anti-6x His DL649 conjugated at 1:10,000 for 1hr at RT. Block: Blocking Buffer for Fluorescent Western Blotting overnight at 4°C. Expected MW: ~27kDa for RFP protein.





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 NBP3-12167

AF011-500	Goat anti-Llama IgG Secondary Antibody [Unconjugated]
NB7242	Goat anti-Llama IgG (H+L) Secondary Antibody [HRP]

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.

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