

Product Datasheet

Maltose Binding Protein Antibody - BSA Free NBP1-97370-0.5mg

Unit Size: 0.5 mg

Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.

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NBP1-97370-0.5mg

Maltose Binding Protein Antibody - BSA Free

Product Information	
Unit Size	0.5 mg
Concentration	LYOPH mg/ml
Storage	Store lyophilized antibody at 4C. Aliquot reconstituted liquid and store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Reconstitution Instructions	For the 1mg size, we recommend reconstitution with 1.0 ml of deionized water. The 0.5mg size is provided in liquid format (0.5 ml)
Isotype	IgG
Purity	IgG purified
Buffer	Lyophilized from 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Product Description	
Description	<p>This IgG purified antibody is directed against Maltose Binding Protein and is useful in determining its presence in various assays</p> <p>Store vial at 4C prior to restoration. For extended storage aliquot contents and freeze at -20C or below. 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.</p>
Host	Rabbit
Species	Non-species specific
Specificity/Sensitivity	This IgG purified antibody is directed against MBP and is useful in determining its presence in various assays. This polyclonal anti-MBP tag antibody detects over-expressed proteins containing the MBP epitope tag. To date this antibody has reacted with all MBP tagged proteins so far tested. In western blotting of bacterial extracts the antibody does not cross-react with endogenous proteins.
Immunogen	This Maltose Binding Protein Antibody was purified from whole rabbit serum prepared by repeated immunizations with the Maltose Binding Protein epitope tag recombinant protein.
Product Application Details	
Applications	Western Blot, ELISA
Recommended Dilutions	Western Blot 1:1000-1:5000, ELISA 1:10000-1:50000



Application Notes

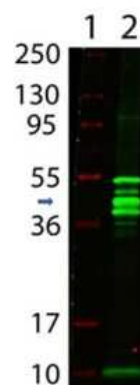
This product is optimally suited for monitoring the expression of MBP tagged fusion proteins. As such, anti-MBP/MBP can be used to identify fusion proteins containing the MBP epitope. The antibody recognizes the MBP epitope tag fused to the amino- or carboxy- termini of targeted proteins. This antibody has been tested by ELISA and western blotting against MBP containing recombinant proteins. Although not tested, this antibody is likely functional for immunoprecipitation and immunocytochemistry, and other immunodetection techniques. Maltose binding protein is a bacterial protein, which is often used in protein expression studies because it creates a stable fusion product that does not appear to interfere with the bioactivity of the protein of interest. It also allows for its easy purification from bacterial extracts under mild conditions. This product is a companion to the pMAL protein expression system and can be used for the detection and purification of MBP-fusion proteins expressed in *E. coli*. By Western blot, a band is seen at ~ 42 kDa representing MBP.

Images

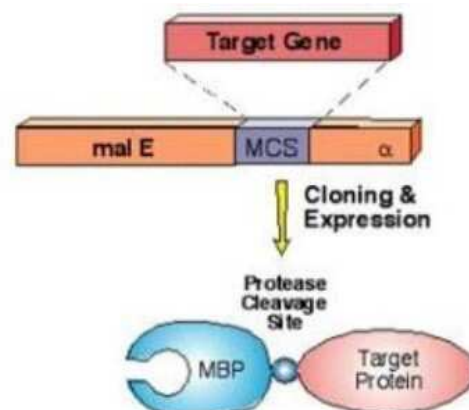
Western Blot: Maltose Binding Protein Antibody - BSA Free [NBP1-97370] - Western Blot of Maltose Binding protein antibody - BSA Free. Lane 1: 1.0 ug of recombinant protein containing the Maltose Binding Protein. Primary Antibody: Polyclonal rabbit-anti-Maltose Binding Protein at 0.5-1.0 ug/ml for 1 h at room temperature. Secondary Antibody: 1:2500 dilution of IRDye 800 conjugated Gt-a-Rabbit IgG [H&L] for 30 min at room temperature. Imaging: LICOR's Odyssey(R) Infrared Imaging System was used to scan and process the image. Other detection systems will yield similar results. Predicted MW: ~42 kDa. A minor band at corresponding to multimers of this protein is also evident.



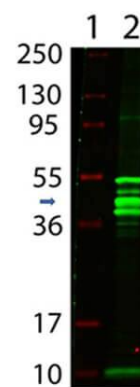
Western Blot: Maltose Binding Protein Antibody - BSA Free [NBP1-97370] - Western Blot showing detection of Maltose Binding protein antibody - BSA Free. Lane 1: MW markers. Lane 2: Maltose Binding Protein [0.05 ug]. Protein was run on a 4-20% gel and transferred to 0.45 um nitrocellulose. Blocking with 1% BSA-TTBS 30 min at 20C. Primary Antibody: Anti-MBP (RABBIT) antibody was used at 1:1000 overnight at 4C. Secondary Antibody: Anti-Rabbit IgG (GOAT) IRDye800(R) conjugated antibody was used at 1:20,000 in Blocking Buffer for Fluorescent Western Blotting for 30 min at 20C. Imaged on the LiCor Odyssey imaging system. Predicted MW: ~42 kDa, the other bands present are recombinant MBP breakdown.



N/A: Maltose Binding Protein Antibody - BSA Free [NBP1-97370]



Western Blot showing detection of Maltose Binding Protein (MBP). Lane 1: MW markers. Lane 2: Maltose Binding Protein



Anti-MBP epitope tag polyclonal antibody detects MBP-tagged recombinant proteins by western blot. Polyclonal rabbit-anti-MBP epitope tag at 0.5-1.0 ug/ml was used to detect 1.0 ug of recombinant protein containing the MBP epitope tag. The apparent molecular weight of this band is 42 kDa. A minor band at corresponding to multimers of this protein is also evident. A 4-20% gradient gel was used to separate the protein by SDS-PAGE. The protein was transferred to nitrocellulose using standard methods. After blocking the membrane was probed with the primary antibody for 1 h at room temperature followed by washes and reaction with a 1:2500 dilution of IRDye 800 conjugated Gt-a-Rabbit IgG [H&L] (code) for 30 min at room temperature. LICOR's Odyssey(R) Infrared Imaging System was used to scan and process the image. Other detection systems will yield similar results.



Publications

Opuni KFM, Koy C, Russ M et al. ITEM-THREE analysis of a monoclonal anti-malaria antibody reveals its assembled epitope on the pfMSP119 antigen J. Biol. Chem. 2020-08-26 [PMID: 32848020] (WB)



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 NBP1-97370-0.5mg

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBC1-18538	Maltose Binding Protein Recombinant Protein

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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