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Datasheet for 600-406-381

MYC Epitope Tag Antibody Biotin Conjugated

Overview

Description:	Anti-Myc Epitope Tag (RABBIT) Antibody Biotin Conjugated - 600-406-381
Item No.:	600-406-381
Size:	100 µg
Applications:	Dot Blot, ELISA, WB
Reactivity:	Myc-Tag
Host Species:	Rabbit

Product Details

Background:	Epitope tags are short peptide sequences that are easily recognized by tag-specific antibodies. Due to their small size, epitope tags do not affect the tagged protein's biochemical properties. Most often sequences encoding the epitope tag are included with target DNA at the time of cloning to produce fusion proteins containing the epitope tag sequence. This allows anti-epitope tag antibodies to serve as universal detection reagents for any tag containing protein produced by recombinant means. This means that anti-epitope tag antibodies are a useful alternative to generating specific antibodies to identify, immunoprecipitate or immunoaffinity purify a recombinant protein. The anti-epitope tag antibody is usually functional in a variety of antibody-dependent experimental procedures. Expression vectors producing epitope tag fusion proteins are available for a variety of host expression systems including bacteria, yeast, insect and mammalian cells. Rockland Immunochemicals produces anti-epitope tag antibodies against many common epitope tags including Myc, GST, GFP, 6X His, MBP, FLAG and HA. Rockland Immunochemicals also produces antibodies to other tags including FITC, Rhodamine (TRITC), DNP and biotin.
Synonyms:	Rabbit anti-MYC Epitope Tag Biotin Conjugated Antibody, Rabbit anti-c-myc tag Biotin conjugation, Glu-Gln-Lys-Leu-Ile-Ser-Glu-Glu-Asp-Leu
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Myc-Tag
Immunogen Type:	Conjugated Peptide
Immunogen:	This antibody was purified from whole rabbit serum prepared by repeated immunizations with Myc epitope tag peptide E-Q-K-L-I-S-E-E-D-L conjugated to KLH using maleimide. The sequence corresponds to aa 410-419 of human c-Myc.
Purity/Specificity:	This affinity purified antibody is directed against human c-myc and is useful in determining its presence in various assays. This polyclonal anti-Myc-tag antibody detects overexpressed proteins containing the Myc epitope tag. The antibody recognizes the Myc-tag (Glu-Gln-Lys-Leu-Ile-Ser-Glu-Glu-Asp-Leu) fused to either the amino- or carboxy- termini of targeted proteins in transfected or transformed cells. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin and anti-Rabbit Serum.

Application Details

Tested Applications:	Dot Blot, ELISA, WB
Application Note:	Anti-myc has utility to detect the fusion protein of the myc epitope cloned along with the target gene. As such, anti-myc/myc can be used to identify fusion proteins containing the myc epitope. The antibody recognizes the Myc tag fused either to the amino- or carboxy- termini of targeted proteins. This antibody has been tested by ELISA and western blotting against both the immunizing peptide and myc containing recombinant proteins. Although not tested, this antibody is likely functional for immunoprecipitation and immunocytochemistry. Biotin conjugated anti-EPITOPE tag antibodies are generally suitable for immunoblotting, ELISA, immunohistochemistry, immunomicroscopy as well as other antibody based assays using streptavidin or avidin conjugates.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:100,000 - 1:500,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

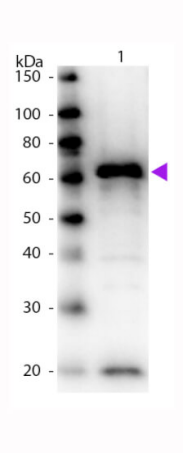
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C 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 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Western Blot
Anti-Myc epitope tag polyclonal antibody detects Myc-tagged recombinant proteins by western blot. Polyclonal rabbit-anti-Myc epitope tag at 0.5-1.0 µg/ml was used to detect 1.0 ug of recombinant protein containing the Myc epitope tag. 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 611-132-122) for 30 min at room temperature. LICOR's Odyssey® Infrared Imaging System was used to scan and process the image. Other detection systems will yield similar results.



Western Blot
Western Blot of Biotin Conjugated Rabbit anti-Myc Epitope Tag antibody. Lane 1: 12-Tag Lysate. Lane 2: None. Load: N/A. Primary antibody: None. Secondary antibody: Biotin rabbit secondary antibody at 1:1,000 for 60 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 60 kDa, 60 kDa for Myc Epitope Tag. Other band(s): Myc splice variants and isoforms.

References

- Wu et al. Potassium and the K+/H+ Exchanger Kha1p Promote Binding of Copper to ApoFet3p Multi-copper Ferroxidase. *Journal of Biological Chemistry* (2016)

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