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Datasheet for 200-406-138-0100

Protein G Antibody Biotin Conjugated

Overview

Description:	Anti-Protein G (RABBIT) Antibody Biotin Conjugated - 200-406-138-0100
Item No.:	200-406-138-0100
Size:	100 µg
Applications:	Dot Blot
Reactivity:	Protein G
Host Species:	Rabbit

Product Details

Background:	Protein G is a protein that has the property of binging to immunoglobulins. It is a 65-kDa cell surface protein that is commonly used for purifying antibodies through binding to the Fab and Fc regions. Protein G was originally isolated from Streptococcal bacteria. It is similar in properties to Protein A but has unique IgG binding specificities. Native protein G also binds albumin, however Rockland uses recombinant forms of Protein G that only bind to immunoglobulins. Biotin is widely used throughout the biotechnology industry to conjugate proteins for biochemical assays. Biotin's small size typically does not affect the biological activity of protein upon biotinylation. Biotinylated proteins of interest can be enriched from a sample due to highly stable interactions. Biotin conjugated anti-Protein G antibodies are used as an amplifying reagent in immunohistochemistry, microarray assays, ELISAs, blots, and other applications.
Synonyms:	rabbit anti-Protein G Antibody biotin Conjugation, biotin conjugated rabbit anti-Protein G Antibody, Protein G BAC
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Protein G

Immunogen Type:	Native Protein
Immunogen:	Protein G [Streptococcus species]
Purity/Specificity:	Anti-Protein G is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Biotin, anti-Rabbit Serum as well as purified and partially purified Protein G [Streptococcus species]. Cross reactivity against Protein G from other sources may occur but have not been specifically determined.

Application Details

Tested Applications:	Dot Blot
Application Note:	Anti-Protein G Biotin Antibody has been tested by dot blot and is suitable to be assayed against 1.0 ug of Protein G in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:90,000 to 1:350,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:9,000 - 1:35,000

Formulation

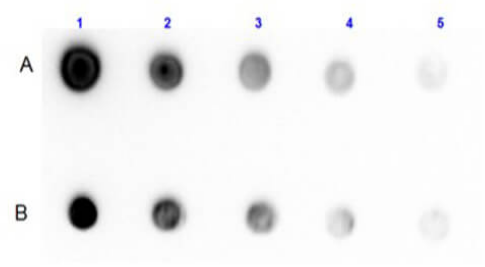
Physical State:	Lyophilized
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution 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



Dot Blot
Dot Blot Results of Rabbit Anti-Protein G Antibody Biotin Conjugated. Lane A: Protein G. Lane B: Protein G reduced with TCEP. (1) 100ng, (2) 33.33ng, (3) 11.11ng, (4) 3.70ng, (5) 1.23ng. Primary Antibody: Anti-Protein G Biotin Conjugated at 1µg/mL for 1 hr at RT. Secondary Antibody: Streptavidin-HRP at 1:40,000 for 30 mins at RT. Block: BlockOut (p/n MB-073) for 30 min RT.

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