

Datasheet for PA00-06**Protein A Biotin Conjugated****Overview**

Description:	Protein A Biotin Conjugated - PA00-06
Item No.:	PA00-06
Size:	500 µg
Applications:	FC
Origin:	Staphylococcus aureus

Product Details

Background:	Protein A is a cell wall protein originating from the bacterium <i>Staphylococcus aureus</i> . Protein A binds to immunoglobulins through interaction with the IgG heavy chain within the Fc region. Affinity to Fc may vary depending on IgG species origins or subclasses. Protein A is predicted 42kDa based on sedimentation data and observed to run ~55-56kDa on SDS-Page. This high affinity property makes Protein A essential in the large scale purification of antibodies.
Synonyms:	ProA, <i>Staphylococcus</i> A protein, Protein A Biotin Conjugated
Species of Origin:	<i>Staphylococcus aureus</i>
Conjugate:	Biotin

Target Details

Purity/Specificity:	This product was prepared from chromatographically pure Protein A. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-biotin and anti-Protein A.
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Application Details

Suggested Applications:	FC (Based on references)
Application Note:	Protein A Biotin Conjugated is suitable as a detection agent for primary antibodies that are of the IgG isotype.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA:	1:20,000 - 1:200,000
IHC:	1:1,000 - 1:5,000
WB:	1:10,000 - 1:40,000

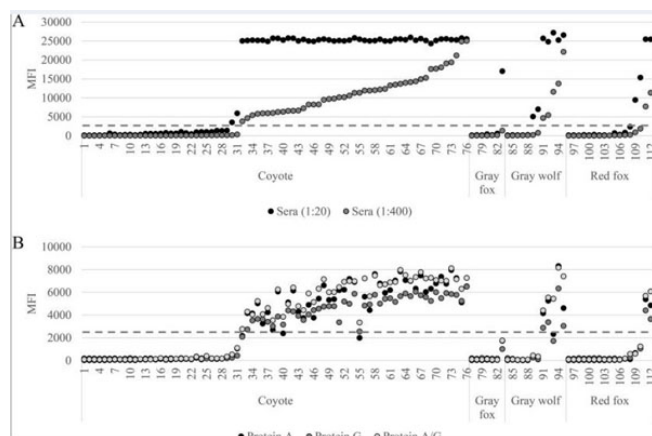
Formulation

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:	500 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



ELISA

Signal response of Nobuto serum samples from 112 canids profiled with the F1-LPA. (A) Detection of F1 immunoreactivity was accomplished using a genus-specific secondary anti-IgG antibody. (B) Detection of F1 immunoreactivity was accomplished using biotinylated conjugates of staphylococcal protein A (p/n PA00-06), streptococcal protein G (p/n PG00-06), and staphylococcal protein A and streptococcal protein G (A/G), with sera diluted 1:20. The dashed line indicates the threshold for positive and negative samples using an S/N ratio of 10. FIG 2. PMID: 29695520.

References

- Jeffrey C Chandler et al. A Bead-Based Flow Cytometric Assay for Monitoring *Yersinia pestis* Exposure in Wildlife. *J Clin Microbiol.* (2018)

Disclaimer

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