Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 200-103-077

Protein A Antibody Peroxidase Conjugated

Overview

Description:	Anti-Protein A (GOAT) Antibody Peroxidase Conjugated - 200-103-077
Item No.:	200-103-077
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Protein A
Host Species:	Goat

Product Details

Background:	Protein A is a cell wall protein originating from the bacterium Staphylococcus aureus. 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. Horseradish Peroxidase (HRP) is an enzyme that utilize organic peroxide compounds as electron donors. Naturally provides protection for plants against pathogens, but can be utilized in molecular biology to convert various substrates to detectable compounds (such as in Western Blotting and ELISAs). Anti-Protein A (GOAT) Antibody is ideal for researchers in Immunology, Cancer, and Microbiology.
Synonyms:	goat anti-Protein A Antibody, HRP Conjugated goat anti-Protein A Antibody, Protein A Peroxidase, Protein A HRP Antibody
Host Species:	Goat
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Protein A

Immunogen Type:	Native Protein
Immunogen:	Protein A [Staphylococcus aureus]
Purity/Specificity:	Anti-Protein A (GOAT) Antibody 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-Peroxidase, anti-Goat Serum as well as purified and partially purified Protein A [Staphylococcus aureus]. Cross reactivity against Protein A from other sources is unknown.
Relevant Links:	• 200-103-077 SDS

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Protein A Peroxidase Conjugated has been tested by ELISA and western blot and is assayed against 1.0 ug of Protein A [Staphylococcus aureus] in a standard capture ELISA using 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 1:10,000 to 1:40,000 is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:2,000-1:20,000
IHC:	1:250
WB:	1:500-1:2,000

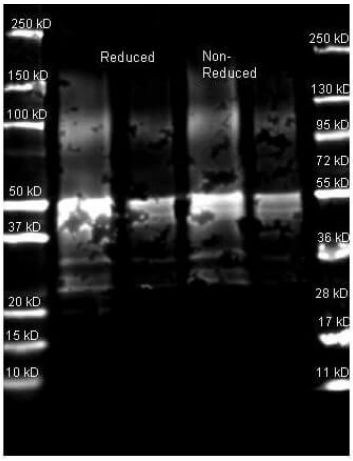
Formulation

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) Gentamicin Sulfate. Do NOT add 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
Western Blot of Goat anti-Protein A Antibody. Lane 1: Protein A Reduced. Lane 2: Protein A Reduced. Lane 3: Protein A Non-Reduced. Lane 4: Protein A Non-Reduced. Load: Lane 1 and 3 - 1.0 µg per lane, Lane 2 and 4 - 0.25 ug per lane. Primary antibody: Protein A antibody at 1:5,000 for overnight at 4°C. Secondary antibody: DyLight™ 649 goat secondary antibody at 1:10,000 for 90 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~42kDa/50 kDa for Protein A. Other band(s): Protein A splice variants and isoforms.

References

- Sharma S et al. A rapid approach to detect methicillin-resistant and susceptible Staphylococcus aureus directly from clinical specimens. *Microbiol Spectr.* (2026)
- Sarfstein R., Werner H. Tumor suppressor p53 regulates insulin receptor (INSR) gene expression via direct binding to the INSR promoter. *Oncotarget* (2020)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.