

## Datasheet for 200-103-077

## Protein A Antibody Peroxidase Conjugated

### Overview

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

<b>Synonyms:</b>	goat anti-Protein A Antibody, HRP Conjugated goat anti-Protein A Antibody, Protein A Peroxidase, Protein A HRP Antibody
<b>Host Species:</b>	Goat
<b>Conjugate:</b>	Peroxidase (HRP)
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

### Target Details

<b>Reactivity:</b>	Protein A
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<b>Immunogen Type:</b>	Native Protein
<b>Immunogen:</b>	Protein A [Staphylococcus aureus]
<b>Purity/Specificity:</b>	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.

## Application Details

<b>Tested Applications:</b>	ELISA, WB
<b>Application Note:</b>	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-ethylbenzothiazoline-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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:2,000-1:20,000
<b>IHC:</b>	1:250
<b>WB:</b>	1:500-1:2,000

## Formulation

<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	1.0 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	100 µL
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
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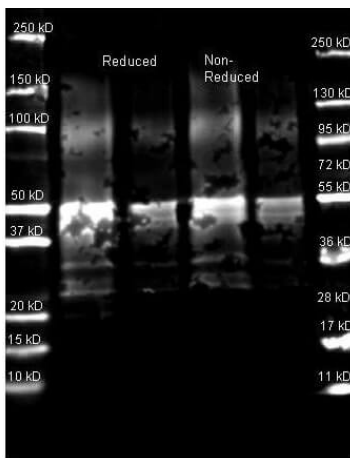
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
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<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.
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## 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 µg 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

- Sarfstein R., Werner H. Tumor suppressor p53 regulates insulin receptor (INSR) gene expression via direct binding to the INSR promoter. *Oncotarget* (2020)

## Disclaimer

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