

Protein A Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10978**Specification**

Protein A Antibody - Product Information

Application	WB
Primary Accession	P02976
Other Accession	YP_498670
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	56437

Protein A Antibody - Additional Information**Gene ID** 3919448**Application & Usage****Western blot analysis (0.5-4 µg/ml).**
However, the optimal conditions should be
determined individually. Recombinant
Protein A can be used as a positive control.**Other Names**

ProteinA, Protein A

Target/Specificity

Protein A

Antibody Form

Liquid

Appearance

Colorless liquid

Formulation

100 µg (0.5 mg/ml) affinity purified rabbit anti-Protein A polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling

The antibody solution should be gently mixed before use.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Protein A Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein A Antibody - Protein Information

Name spa

Function

Plays a role in the inhibition of the host innate and adaptive immune responses. Possesses five immunoglobulin-binding domains that capture both the fragment crystallizable region (Fc region) and the Fab region (part of Ig that identifies antigen) of immunoglobulins (PubMed:2938951, PubMed:4163007, PubMed:10805799). In turn, Staphylococcus aureus is protected from phagocytic killing via inhibition of Ig Fc region. In addition, the host elicited B-cell response is prevented due to a decrease of antibody-secreting cell proliferation that enter the bone marrow, thereby decreasing long-term antibody production. Inhibits osteogenesis by preventing osteoblast proliferation and expression of alkaline phosphatase, type I collagen, osteopontin and osteocalcin. Acts directly as a pro-inflammatory factor in the lung through its ability to bind and activate tumor necrosis factor alpha receptor 1/TNFRSF1A (By similarity).

Cellular Location

Secreted, cell wall; Peptidoglycan-anchor; Extracellular side. Secreted. Note=Cell wall anchoring is conferred by the LPXTG motif and following sequences (PubMed:1638631). Anchored by sortase A (PubMed:10427003). SpA from strains A676 and V-I is secreted whereas SpA from Cowan 1 and 8325-4 is mostly attached to the cell wall (Probable). Newly synthesized protein is deposited at 2-4 foci/cell and eventually is distributed in a ring around the cell (PubMed:17416657).

Protein A Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Protein A Antibody - Images

Protein A Antibody - Background

Protein A binds to the constant region of many species of immunoglobulin G. Protein A can be used to detect, quantify and purify IgG antibodies and antibody/antigen complexes. Protein A binds to all IgG subclasses from human and mouse species.