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**cappel**

**PEROXIDASE-CONJUGATED PROTEIN A**

**2MG**

**Catalog #: 55901**

**Lot #: 06175**

ELISA Titer 1:110,000

**Form:** Liquid. The product is in 10mM phosphate, 0.15M NaCl buffer, pH 7.4, 1% ovalbumin, 40% glycerol containing 0.1% proclin as preservative.

**Description:** This product is a conjugate of Protein A and highly purified (Rz >3.0) horseradish peroxidase.

Protein A is a component of the cell wall of *Staphylococcus aureus* (Cowan 1 Strain), and binds to the Fc portion of immunoglobulin molecules of most mammalian species. It is composed of a single polypeptide chain of molecular weight 42,000. Protein A binds IgG molecules and, in some cases, IgM and IgA.

**Uses:** Peroxidase-Conjugated Protein A is a versatile reagent which is useful in many immunological assay systems. It is intended for use in cell and tissue staining, dotting and blotting, ELISA and other immunoassays. For each specific experiment, the product should be titered to maximize signal to background.

**Technique:** Cell/tissue staining

Dotting/blotting 1:500 - 1:1,000

Enzyme Immunoassays

Substrate solution = 1 mM ABTS in 0.1M citrate buffer, pH 4.2, containing 0.03% hydrogen peroxide.

### Suggested Trial

**Dilutions:** 1:100 - 1:200

1:8,000 - 1:16,000

**Storage:** Store unopened product at 2-8°C. Do not freeze. If accidentally frozen, centrifuge to clarify and precipitate before use.

### Binding

#### Characteristics

**of Protein A<sup>5,6</sup>:** Species Classes/Subclasses Bound

Human IgG<sub>1</sub>, IgG<sub>2</sub>, IgG<sub>4</sub> and IgA

Rabbit IgG and some IgM

Mouse IgG<sub>2a</sub>, IgG<sub>2b</sub>, IgG<sub>3</sub> and some IgG

Sheep IgG<sub>2</sub>

Goat IgG<sub>2</sub>

Rat IgG<sub>1</sub> and IgG<sub>2c</sub>

Dog IgG<sub>a</sub>, IgG<sub>b</sub>, IgG<sub>c</sub>, IgG<sub>d</sub>, IgA and some IgM  
Guinea Pig IgG<sub>1</sub> and IgG<sub>2</sub>  
Pig IgG  
Cow IgG<sub>2</sub>

Note: Consult references for specific binding conditions for given classes/subclasses

- References:**
1. Biberfeld, P., Ghetie, V. and Sjoquist, J., Demonstration and assaying of IgG antibodies in tissue and on cells by labeled staphylococcal Protein A. **J. Immunol. Meth.** 6, 249-259, 1975.
  2. Goodling, J.W., Use of staphylococcal Protein A as an immunological reagent. **J. Immunol. Meth.** 20, 241-253, 1978.
  3. Grangeot-Keros, L. et al., A critical study of the use of staphylococci containing Protein A for separation of IgG and IgM antibodies. **J. Immunol. Meth.** 5, 183-195, 1982.
  4. Hsu, S. and L. Raine, Protein A, avidin and biotin in immunochemistry. **J. Histochem. Cytochem.** 29, 1349-1353, 1981.
  5. Richman, D., Cleveland, P. Oxman and Johnson, K., The binding of staphylococcal Protein A by the sera of different animals. **J. Immunology** 5, 2300-2305, 1982.
  6. Lindmark, R., Thoren-Tolling, K. and Sjoquist, J., Binding of immunoglobulins to Protein A and immunoglobulin levels in mammalian sera. **J. Immunology** 62, 1-13, 1983.

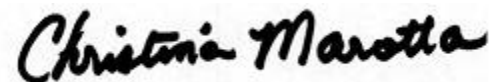
**Related Product Ordering Information:**

**Catalog #   Description   Size**

55832 Protein A      2 mg  
55965 Alkaline Phosphatase-Conjugated Protein A      2 mg  
55908 Purified Human IgG      50 mg  
55944 Purified Rabbit IgG      50 mg  
36315 DAB      6x1 ml  
36317 OPD      6x1 ml  
36318 TMB      6x1 ml  
36319 ABTS\      6x1 ml

ABTS is a registered trademark of Boehringer Mannheim GmbH.

This product is intended for Research Use Only, "for Tests *in vitro*", not for use in diagnostic or therapeutic procedures involving humans or animals.



**Approved by:** Christina Marotta  
Quality Control Director

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