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cappel

PEROXIDASE-CONJUGATED PROTEIN A

2MG

Catalog #: 55901

Lot #: 99322

Conjugate Conc.: 2.0 mg/ml

DESCRIPTION:

This product is a conjugate of highly purified protein A (human IgG binding > 9 mg/mg protein A) and highly purified ($R_z > 3.0$) horseradish peroxidase. It is supplied liquid in 0.01M phosphate buffered saline, pH 7.4, with 1% ovalbumin, 40% glycerol and 0.1% proclin.

Protein A is a component of the cell wall of *Staphylococcus aureus*, 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 titrated to maximize signal to background.**

Technique Suggested Trial Dilutions

Cell/tissue staining 1/100 - 1/200

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

Enzyme Immunoassays 1/8,000 - 1/16,000

STORAGE:

Store unopened product at 2-8°C. Do not freeze; product is adversely affected by freeze/thaw.

WARNING AND CAUTION:

This product is intended **FOR RESEARCH USE ONLY**, not for use in diagnostic or therapeutic procedures involving humans or animals.

This product contains thimerosal as a preservative. The formation of turbidity, precipitates or odors characteristic of microbial growth are indications of product deterioration; such material should be replaced.

RELATED PRODUCT ORDERING INFORMATION:

Catalog # Description Size

55832 PROTEIN A 2MG
55965 ALKALINE PHOSPHATASE-CONJUGATED PROTEIN A 2MG
55908 PURIFIED HUMAN IGG 50MG
55944 PURIFIED RABBIT IGG 50MG
36315 DAB 6x1ML
36317 OPD 6x1ML
36318 TMB 6x1ML
36319 ABTS\ 6x1ML

BINDING CHARACTERISTICS OF PROTEIN A ^(5,6)

SPECIES CLASSES/SUBCLASSES BOUND

Human IgG₁, IgG₂, IgG₄, and IgA
Rabbit IgG and some IgM
Mouse IgG_{2a}, IgG_{2b}, IgG₃ and some IgG
Sheep IgG₂
Goat IgG₂
Rat IgG₁ and IgG_{2c}
Dog IgG_a, IgG_b, IgG_c, IgG_d, IgA and some IgM
Guinea Pig IgG₁ and IgG₂
Pig IgG
Cow IgG₂

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

REFERENCES:

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

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Approved by Joseph Dietz, Ph.D.
Quality Control Director

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