

Technical Bulletin

## Anti-Human IgA ( $\alpha$ -chain specific)

produced in rabbit, IgG fraction of antiserum

**I9889**

### Product Description

Anti-Human IgA ( $\alpha$ -chain specific) is produced in rabbit using IgA purified from normal human colostrum as the immunogen. Whole antiserum is purified to provide an IgG fraction of antiserum. To ensure chain specificity the IgG fraction of the antiserum is adsorbed using solid phase techniques.

Specificity for the  $\alpha$ -chain of human IgA is determined by Ouchterlony Double Diffusion (ODD). The antibody preparation is specific for human IgA when tested against purified human IgA, IgG, IgM, Bence Jones kappa and lambda myeloma proteins.

Identity and purity of the antibody is established by immunoelectrophoresis (IEP). Electrophoresis of the product followed by diffusion versus anti-rabbit IgG and the anti-rabbit whole serum results in single arcs of precipitation in the gamma region.

### Reagent

Supplied as a liquid in 0.01 M phosphate buffered saline, pH 7.2, containing 15 mM sodium azide as a preservative.

### Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

### Product Profile

Protein Concentration: 10-20 mg/mL by absorbance at 280 nm ( $E^{1\%}_{280} = 14.0$ ).

### Precipitin Analysis

Each milliliter of antiserum contains 2.5-5.0 mg of specific antibody. Human whey proteins are used to determine the antibody concentration by a quantitative precipitin assay.

### Titer:

Minimum 1:32

Using a double diffusion assay, 3% PEG in the 1% agarose, 10  $\mu$ L serially diluted Anti-Human IgA is reacted against 10  $\mu$ L of a 2 mg/mL solution of purified human IgA (well diameter; 3.5 mm, well separation; 7.5 mm center to center).

Titer is equivalent to the highest dilution of antiserum resulting in a visible precipitate in 24 hours at room temperature.

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