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AP31450FC-N Polyclonal Antibody to Monkey IgA (Secretory component) - FITC

Alternate names: Monkey Immunoglobulin A

Quantity: 1 ml

Concentration: 10 mg/ml

Host / Isotype: Goat / IgG

Immunogen: Secretory component is present in monkey secretions bound to secretory IgA (sIgA) and in free form. Secretory IgA (sIgA) functions as a dimer or polymer and accounts for almost all specific mucosal antibody activity. A molecule of sIgA is made up of two molecules of IgA, one J chain and one SC (MW 65,000). The dimer IgA is transported into secretions by its binding to the SC on the epithelial cells. SC also has an affinity for polymeric IgM. Purified free monkey secretory component isolated from pooled milk is used for immunization.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Format: **State:** Lyophilised hyperimmune Ig fraction
Purification: DEAE-column Chromatography
Buffer System: PBS, pH 7.2
No preservative added, as it may interfere with the antibody activity. No foreign proteins added.
Label: FITC – Fluorescein isothiocyanate isomer 1 **Conjugation procedure** A proprietary technique for the binding to is used, followed by several purification steps to remove free reactants and protein aggregates. After each step activity and specificity are tested in a variety of techniques. The conjugate is lyophilized to assure stability and long shelf life
Absorption / Emission: 492nm/515nm
Molar Ratio: 1,6
Reconstitution: Restore with 1 ml sterile distilled water

Applications: Tested in immunoelectrophoresis, double radial immunodiffusion and ELISA against a panel of appropriate secretions and purified Ig isotypes.
Can be used as reagent for the direct detection of secretory component in monkey cells, tissues and body fluids in immunofluorescence; as detection reagent in non-isotopic methodology and solid phase immunochemistry (e.g. ELISA).
This immunoconjugate is not pre-diluted. The optimum working dilution of each conjugate should be established by titration before being used. Excess labelled antibody must be avoided because it may cause high unspecific background staining and interfere with the specific signal.
Working dilutions are usually between 1/20 and 1/80.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Specificity:

The antiserum reacts with both bound secretory component (secretory IgA) and with the free SC present in monkey secretions. In immunoelectrophoresis against monkey milk, using a high electroendosmosis agar plate, free SC is precipitated in the alph-2 region. The immunoconjugate does not react with other molecular forms of IgA, or with any other secretory or plasma protein.
Cross-reactivity Inter-species cross-reactivity is a normal feature of antibodies to immunoglobulins, since Ig of different species frequently share antigenic determinants. Precipitation reactions have been observed with free and bound secretory component in serum of other old-world monkeys, including Cercopithecus, Cynomolgus and Baboon. The conjugate may also react with other species as has been observed for chimpanzee.
Species: Chimpanzee and Monkey.
Other species not tested.

Add. Information:

Adsorption Immunoaffinity adsorbed using insolubilized antigens as required to eliminate antibody activity to any other serum protein. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.

Storage:

Prior to reconstitution store at 2-8°C.
Following reconstitution store undiluted at 2-8°C for one month
or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

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