

AP21491BT-N**Polyclonal Antibody to Rat IgG2b (subclass specific) - Biotin**

Alternate names: Rat Immunoglobulin 2b
Quantity: 1 ml
Concentration: 10,0 mg/ml
Host / Isotype: Goat / IgG
Immunogen: Pools of purified homogenous IgG2b isolated from rat serum.
Freund's complete adjuvant is used in the first step of the immunization procedure.

Format: **State:** Lyophilized IgG fraction
Purification: Ammonium Sulphate Precipitation and Ion Exchange Chromatography
Buffer System: PBS, pH 7.2 without preservatives and foreign proteins
Label: Biotin
Molar Ratio: Biotin/IgG: ~7.0
Reconstitution: Restore by adding 1.0 ml of sterile distilled water

Applications: Can be used in Immunocytochemical and Immunohistochemical staining for the detection of IgG2b at the cellular and subcellular level of appropriately treated cell and tissue substrates; to demonstrate circulating IgG2b antibodies in serodiagnostic microbiology and autoimmune diseases; to identify a specific antigen using a reference antibody of rat origin known to be of the IgG2b isotype in the middle layer of the indirect test procedure; in non-isotopic assay methodology (e.g. ELISA) to measure IgG2b in rat serum or other body fluids. As a second step an avidin or streptavidin conjugate of the user's choice has to be used. 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.

Recommended Working Dilutions:

Histochemical and Cytochemical Use: 1/100-1/250.

ELISA and comparable non-precipitating antibody-binding assays: 1/1000-1/10000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: The reactivity of the antiserum is directed to the subclass IgG2b. It does not react with other subclasses of IgG, IgG/Fab fragments, IgM and IgA or any non-Ig protein in rat serum, as tested by immunoelectrophoresis and double radial immunodiffusion.

Cross-reactivity: This immunoconjugate is not species-specific since inter-species cross-reactivity is a normal feature of antisera to immunoglobulins. Cross-reactivity of this immunoconjugate has not been tested in detail; however in double radial immunodiffusion a reaction with mouse and human has been observed.

Add. Information: **Adsorption:** Immunoaffinity adsorbed using insolubilized antigens as required to eliminate antibodies cross-reacting with other components of the immunoglobulin system or reacting with other serum proteins. Special attention is given to the removal of antibodies to common Ig/Fab. The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in

the antiserum..

Storage:

Store lyophilized at 2-8°C for 6 months or at -20°C long term.
After reconstitution store the antibody undiluted at 2-8°C for one month
or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.