

AP21493HR-N**Polyclonal Antibody to Rat IgG2ab (subclass specific) - HRP**

Alternate names:	Rat Immunoglobulin G2ab
Quantity:	1 ml
Concentration:	10,0 mg/ml
Host / Isotype:	Goat / IgG
Immunogen:	Pools of purified homogenous IgG2a and IgG2b isolated from rat sera. Freund's complete adjuvant is used in the first step of the immunization procedure.
Format:	<p>State: Lyophilized purified hyperimmune IgG fraction</p> <p>Purification: Hyperimmune antisera with strong precipitating activity are selected for fractionation and purification of the IgG (7S) fraction containing the bulk of the defined antibody specificity. It is free of other serum proteins as tested by immunoelectrophoresis.</p> <p>Buffer System: PBS, pH 7.2 without preservatives and foreign proteins</p> <p>Label: HRP – Horseradish Peroxidase <u>Enzyme marker</u> Horseradish peroxidase enriched for isoenzyme C (RZ=3.2) <u>Conjugation procedure</u> Conjugation is carried out using a proprietary modification of the periodate technique for the binding to peroxidase, followed by several purification steps. After each step activity and specificity are tested in a variety of techniques. The conjugate is lyophilized to assure stability and long shelf life</p> <p><i>Molar Ratio:</i> Peroxidase/IgG ~1.0</p> <p>Reconstitution: Restore with 1,0 ml distilled water.</p> <p>Working dilutions should be prepared by adding sterile PBS, pH 7.2</p>
Applications:	<p>Can be used in Enzyme-immunocytochemical and Immunohistochemical staining for the detection of IgG2 at the cellular and subcellular level by staining of appropriately treated cell and tissue substrates; to demonstrate circulating IgG2 antibodies in serodiagnostic microbiology and autoimmune diseases; to identify a specific antigen using a reference antibody of rat origin known to be of the IgG2 isotype in the middle layer of the indirect test procedure; in non-isotopic assay methodology (e.g. ELISA) to measure IgG2 in rat serum or other body fluids.</p> <p>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.</p> <p><u>Recommended working dilutions:</u></p> <p>Histochemical and Cytochemical: 1/100 - 1/250.</p> <p>ELISA and comparable non-precipitating antibody-binding assays: 1/1,000 - 1/10,000.</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>

- Specificity:** The reactivity of the antiserum is directed to the subclass IgG2a. 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 and more sensitive techniques.
Cross-reactivity This immunoconjugate is not species-specific since inter-species cross-reactivity is a normal feature of antisera to immunoglobulins. Cross-reactivity has not been tested in detail; in double radial immunodiffusion a reaction with mouse has been observed.
Species: Rat.
Other species not tested.
- 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:** Prior to and following reconstitution store the antibody at 2-8°C for one month or at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.