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RAT IgG (BULK ORDER)

Catalog # ASR3582

Product Information

Description	RAT IgG whole molecule (BULK ORDER)
Conjugate	Unconjugated
Physical State	Lyophilized
Host Isotype	IgG
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Species of Origin	Rat
Reconstitution Volume	1.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide

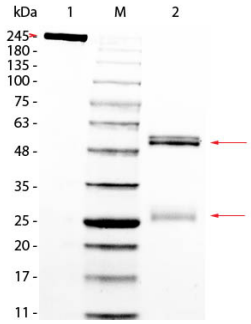
Additional Information

Shipping Condition	Ambient
Application Note	Rat IgG is suitable for use as antigen or ligand in immunochemical reactions, as a control or standard in assays, for conjugation and most other immunological methods requiring highly purified immunoglobulins.
Purity	Rat IgG was prepared from normal serum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rat IgG and anti-Rat Serum.
Storage Condition	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Precautions Note	This product is for research use only and is not intended for therapeutic or diagnostic applications.

Background

Rat IgG purified protein (Immunoglobulin G) are antibody molecules. Rat IgG is composed of four peptide chains — two heavy chains ? and two light chains. Rat IgG has two antigen binding sites. Other Immunoglobulins may be described in terms of polymers with the IgG structure considered the monomer. Rat IgG typically constitutes 75% of serum immunoglobulins. Rat IgG molecules are synthesized and secreted by plasma B cells.

Images



SDS PAGE of Rat IgG Whole Molecule. Lane 1: Non-Reduced Rat IgG Whole Molecule. Lane 2: 5 µL Opal Prestained Marker (p/n MB-210-0500). Lane 3: Reduced Rat IgG Whole Molecule. Load: 1 µg per lane. Predicted/Observed size: Non-Reduced at 160kDa/Observed at 245 kDa; Reduced at 55, 25 kDa. Non-reduced IgG migrates slightly higher.