

Recombinant Rat IgG2a Isotype Control Antibody

Catalog No.: PA007143

Background

Naturally synthesized and secreted by plasma B cells, the immunoglobulin G (IgG) antibodies are the most abundant antibody isotypes found in blood and extracellular fluid. There are four IgG subclasses (IgG1, IgG2a, IgG2b, and IgG2c) in rats. IgG antibodies are large molecules of about 150 kDa composed of four peptide chains, two identical heavy chains of about 50 kDa and two identical light chains of about 25 kDa. The four peptides are arranged in a Y-shape tetramer by disulfide bonds formed between the two heavy chains and between a heavy chain and a light chain. Rat IgG2a isotype control and mutants (natural and engineered rIgG2a isotype controls) are useful for functional study using animal model among a number of in vitro and in vivo research applications including ELISA, Western Blot (WB), Flow Cytometry (Flow), Immunoprecipitation (IP), Immunohistochemistry (Paraffin) (IHC (P)), and Immunohistochemistry (Frozen) (IHC (F)). Rat IgG2a and IgG1 antibodies are more like mouse IgG1 than rat IgG2b antibodies. Most of rat antibodies are used to study mouse and human target proteins.

Source: Mammalian cell-derived.

Endotoxin level: Less than 1 EU/mg of protein as determined by LAL method.

Purity: > 95%, by reducing SDS-PAGE.

Formulation: 0.2 µM filtered solution of PBS, pH 7.4.

Applications: An isotype-matched negative control for rat IgG2a kappa antibodies used in ELISA, Western Blot (WB), Flow Cytometry (Flow), Immunoprecipitation (IP), Immunohistochemistry (Paraffin) (IHC (P)), Immunohistochemistry (Frozen) (IHC (F)), and in vivo animal model research.

Shipping: The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended below.

Stability & storage:

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt if stored at 4°C as supplied.

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<https://www.duozhaozhao.com/rat-igg2a-isotype-control-antibody-pa007143/>