



Recombinant Protein Technical Manual

Recombinant Rat IgG2A Fc/Igg-2a Protein

RPES0417

Product Data:

Product SKU: RPES0417

Size: 10µg

Species: Rat

Expression host: Human cells

Uniprot: P20760

Protein Information:

Molecular Mass: 35.2 kDa

AP Molecular Mass: 30-35 kDa

Tag:

Bio-activity:

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM Tris, pH 8.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Ig gamma-2A chain C region; Igg-2a

Immunogen Information:

Sequence: Val98-Lys322

Background:

Immunoglobulin G (IgG) is a type of antibody composed of four peptide chains—two identical heavy chains and two identical light chains arranged in a Y-shape typical of antibody monomers. There are four IgG subclasses (IgG1, 2, 3, and 4) in humans, named in order of their abundance in serum. The IgG2a isotype was able to interact very efficiently with FcγR, and share approximately 64-78% amino acid sequence identity with IgG1 and IgG2b in the heavy chain constant region domains, CH1, CH2 and CH3, which cause the difference in the interaction with complement, NK and mast cells, induction or inhibition by specific cytokines, and ability to cross the placenta.