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Recombinant mouse IgG2A protein

Catalog Number: ATGP1512

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

98-330aa

UniProt No.

P01863

NCBI Accession No.

CAC20702

Alternative Names

Immunoglobulin heavy chain constant region gamma 2a, Immunoglobulin G

PRODUCT SPECIFICATION

Molecular Weight

27.5 kDa (242aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Immunoglobulin G (IgG) is antibody molecules. Each IgG is composed of four peptide chains -two heavy chains gamma and two light chains. Each IgG has two antigen binding sites. IgG antibodies are involved in predominantly the secondary immune response. The presence of specific IgG, in general, corresponds to maturation of the antibody response. It also plays an important role in Antibody-dependent cell-mediated cytotoxicity (ADCC) and Intracellular antibody-mediated proteolysis, in which it binds to TRIM21 (the receptor with greatest affinity to IgG in humans) in order to direct marked virions to the proteasome in the cytosol.



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Recombinant mouse IgG protein, fused to His-tag at C-terminus, was expressed in Hi-5 cell using baculovirus expression system and purified by using conventional chromatography.

Amino acid Sequence

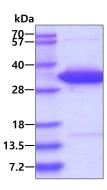
<ADP>EPRGPTI KPCPPCKCPA PNLLGGPSVF IFPPKIKDVL MISLSPIVTC VVVDVSEDDP DVQISWFVNN VEVHTAQTQT HREDYNSTLR VVSALPIQHQ DWMSGKEFKC KVNNKDLPAP IERTISKPKG SVRAPQVYVL PPPEEEMTKK QVTLTCMVTD FMPEDIYVEW TNNGKTELNY KNTEPVLDSD GSYFMYSKLR VEKKNWVERN SYSCSVVHEG LHNHHTTKSF SRTPGK<HHHH HH>

General References

Mallery DL, et al. (2010) Proc. Natl. Acad. Sci. u.S.A. 107 (46): 19985-19990. Stadlmann J, et al. (2008) Proteomics 8 (14): 2858-2871.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

