

# Recombinant mouse IgG2A protein

Catalog Number: ATGP1512

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

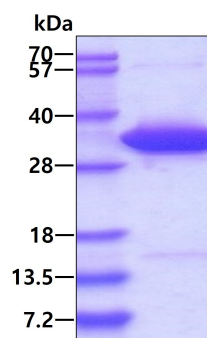
<ADP>EPRGPTI KPCPPCKCPA PNLLGGPSVF IFPPKIKDVL MISLSPIVTC VVVDVSEDDP DVQISWVFN VEVHTAQTQT  
HREDYNSTLR VVSALPIQH Q DWMSGKEFKC KVNNKDL P IERTISKPKG SVRAPQVYVL PPPEEEMTKK QVTLTCMVD  
FMPEDIYVEW TNNGKTELNY KNTEPVLDS GSYFMYSKLR VEKKNWVERN SYSCSVVHEG LHNHHTTKSF  
SRTPGK<HHHH HH>

## 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



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.