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## Product Data Sheet

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Product Name: IgG Mouse, His  
 Cat. No.: GP23705  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Hi-5 cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ig gamma-2A chain C region; A allele; Immunoglobulin heavy chain gamma polypeptide; Ighg; Igh-1; Igh-1a; 1810060O09Rik.		
Amino Acid Sequence	ADPEPRGPTI KCPPCKCPA PNLLGGPSVF IFPPKIKDVL MISLSPIVTC VVVDVSEDDP DVQISWVNN VEVHTAQTQT HREDYNSTLR VVSALPIQHQ DWMSGKEFKC KVNNKDLAP IERTISKPKG SVRAPQVYVL PPPEEEMTKK QVTLTCMVTDFMPEDIYVEW TNNGKTELNY KNTEPVLDSG SYFMYSKLR VEKKNWVERN SYSCSVHEG LHNHHTTKSF SRTPGKHHHH HH.		
Formulation	IgG protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

### Introduction

Immunoglobulin G (IgG) are antibody molecules. Each IgG is composed of four peptide chains- 2 heavy chains and 2 light chains. Also, each IgG has 2 antigen binding sites. IgG antibodies are involved in primarily the secondary immune response. The presence of specific IgG, generally, relates to maturation of the antibody response. IgG also has an imperative 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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IgG Mouse Recombinant produced in Hi-5 cells is a single polypeptide chain containing 242 amino acids (98-330 a.a) and having a molecular mass of 27.5kDa. IgG is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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