

## IgG2C Protein, Mouse, Recombinant

## General Information

Synonyms:	Ighg2c;IgG2C
Protein Construction:	Ile97-Ser330
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	F6TQW2
Molecular Weight:	26.10 kDa (predicted). Due to glycosylation, the protein migrates to 30-40 kDa based on Tris-Bis PAGE result.

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/μg by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

## Shipping:

In general, Lyophilized powders are shipping with blue ice.

## Protein Background

Mouse IgG2c is a subclass of mouse antibody IgG, it can bind FcγRIV with high affinity and the Fc loop residues of mouse IgG2c promote greater receptor-binding affinity than mouse IgG2b or human IgG1.

### Reference

Falconer DJ, Barb AW. Mouse IgG2c Fc loop residues promote greater receptor-binding affinity than mouse IgG2b or human IgG1. *PLoS One*. 2018 Feb 6;13(2):e0192123. doi: 10.1371/journal.pone.0192123. Erratum in: *PLoS One*. 2018 Apr 24;13(4):e0196609. PMID: 29408873; PMCID: PMC5800599.

(2) Nazeri S, Zakeri S, Mehrizi AA, Sardari S, Djadid ND. Measuring of IgG2c isotype instead of IgG2a in immunized C57BL/6 mice with *Plasmodium vivax* TRAP as a subunit vaccine candidate in order to correct interpretation of Th1 versus Th2 immune response. *Exp Parasitol*. 2020 Sep;216:107944. doi: 10.1016/j.exppara.2020.107944. Epub 2020 Jun 30. PMID: 32619431.

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