

# Human IgG4 (Fc) Rabbit mAb

Catalog No.: A23201 **Recombinant**

## Basic Information

**Observed MW**

55kDa

**Calculated MW**

36kDa

**Category**

Primary antibody

**Applications**

WB,IF-P,ELISA

**Cross-Reactivity**

Human

**CloneNo number**

ARC60037

## Background

As a monomeric immunoglobulin that is predominately involved in the secondary antibody response and the only isotype that can pass through the human placenta, Immunoglobulin G (IgG) is synthesized and secreted by plasma B cells, and constitutes 75% of serum immunoglobulins in humans. IgG antibodies protect the body against the pathogens by agglutination and immobilization, complement activation, toxin neutralization, as well as the antibody-dependent cell-mediated cytotoxicity (ADCC). IgG tetramer contains two heavy chains (50 kDa) and two light chains (25 kDa) linked by disulfide bonds, that is the two identical halves form the Y-like shape. IgG is digested by pepsin proteolysis into Fab fragment (antigen-binding fragment) and Fc fragment ("crystallizable" fragment).

## Recommended Dilutions

**WB** 1:1000 - 1:5000**IF-P** 1:100 - 1:500

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID****Swiss Prot**

P01861

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

IGHG4; Ig gamma-4 chain C region; Human IgG4 (Fc)

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

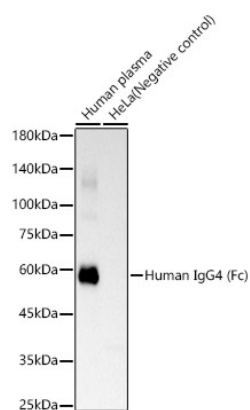
Affinity purification

**Storage**

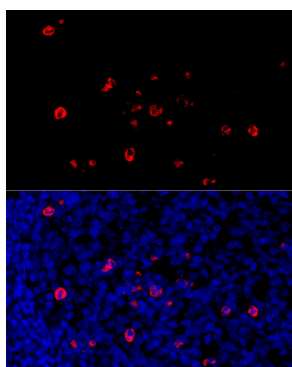
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data



Western blot analysis of various lysates, using Human IgG4 (Fc) Rabbit mAb (A23201) at 1:2000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol. Immunofluorescence analysis of paraffin-embedded human tonsil using Human IgG4 (Fc) Rabbit mAb (A23201) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.