

# In Vivo Grade Recombinant Mouse IgG2a Isotype Control Antibody

Catalog No.: YR0181

## Basic Information

### Molecular Weight

150 kDa

### Endotoxin

<1EU/mg (<0.001EU/μg) Determined by LAL gel clotting assay

### Sterility

0.2 μm filtration

### Aggregation

<5% Determined by SECP

### Purity

>95% Determined by SDS-PAGE

## Background

Mouse IgG antibodies are classified to four subclasses mainly based on the isotype of the heavy chain (IgG1, IgG2a or IgG2c, IgG2b, and IgG3 for the heavy chain; kappa and lamda for the light chain), of which IgG1 and kappa are the most abundant named in serum. IgG antibodies are large molecules of about 150 kDa composed of four peptide chains, two identical heavy chains of about 50 kDa and two identical light chains of about 25 kDa. The four peptides are arranged in a Y-shape tetramer by disulfide bonds formed between the two heavy chains and between a heavy chain and a light chain.

## Reported Applications

an isotype-matched negative control used in ELISA, Western Blot (WB), Flow Cytometry (Flow), Immuno precipitation (IP), Immunohistochemistry (Paraffin) (IHC (P)), Immunohistochemistry (Frozen) (IHC (F)), and in vivo animal model research

## Immunogen Information

### Clone

12B9

### Isotype

Mouse IgG2a kappa

### Immunogen

### Recommended Isotype Control(s)

### Recommended Dilution Buffer

1×PBS pH 7.0

## Contact

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## Product Information

### Production

Purified from cell culture supernatant in an animal-free facility

### Purification

Protein A or G purification

### Storage

2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)