## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
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<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<td>Immunoblotting</td>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Chimpanzee

**N.B.** Antibody reactivity and working conditions may vary between species.

### Product Form

Purified IgG - liquid

### Buffer Solution

Borate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide

### Approx. Protein Concentrations

IgG concentration 0.5mg/ml

### Immunogen

Purified IgG4

### External Database Links

[UniProt](https://www.uniprot.org)
**Related reagents**

**Entrez Gene:**

3503 IGHG4

**Fusion Partners**

Spleen cells from BALB/c mice were fused with SP2/0 - Ag14 mouse myeloma cell line.

**Specificity**

**Mouse anti Human IgG4 antibody, clone HP6025** recognizes the heavy chain of human IgG4, at an epitope in the Fc region. No cross-reactivity is observed with IgG1, IgG2, IgG3, IgM, IgA (*Jefferis et al. 1985*).

Elevated levels of IgG4 and of IgG4 presenting plasma cells are frequently seen in patients with autoimmune pancreatitis (*Navaneethan et al. 2011*) and it is suggested that IAP may develop as a paraneoplastic syndrome in some cancer patients (*Shiokawa et al. 2013*).

**References**


### Storage

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<tr>
<th>Storage</th>
<th>Store at +4°C or at -20°C if preferred.</th>
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<tbody>
<tr>
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<td>This product should be stored undiluted.</td>
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<td></td>
<td>Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</td>
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### Shelf Life

18 months from date of despatch.

### Health And Safety Information

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### Regulatory

For research purposes only

### Related Products

#### Recommended Secondary Antibodies

- Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos., HRP**
- Goat Anti Mouse IgG (STAR77...) **HRP**
- Rabbit Anti Mouse IgG (STAR12...) **RPE**
- Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**
- Rabbit Anti Mouse IgG (STAR13...) **HRP**
- Goat Anti Mouse IgG (STAR76...) **RPE**
- Goat Anti Mouse IgG (STAR70...) **FITC**
- Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800, FITC, HRP**
- Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**
- Rabbit Anti Mouse IgG (STAR9...) **FITC**
- Human Anti Mouse IgG1 (HCA036...) **HRP**

#### Recommended Negative Controls

- MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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