### 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>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<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**

UniProt:
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 (IAP) and inflammatory bowel disease (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
Store at +4°C or at -20°C if preferred.
This product should be stored undiluted.
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.

Shelf Life
18 months from date of despatch.

Health And Safety Information

Regulatory
For research purposes only

Related Products

Recommended Secondary Antibodies

<table>
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<tr>
<th>Product</th>
<th>Link</th>
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<tbody>
<tr>
<td>Goat Anti Mouse IgG (STAR77...)</td>
<td>HRP</td>
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<tr>
<td>Rabbit Anti Mouse IgG (STAR13...)</td>
<td>HRP</td>
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<tr>
<td>Goat Anti Mouse IgG (Fc) (STAR120...)</td>
<td>FITC, HRP</td>
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<td>Rabbit Anti Mouse IgG (STAR8...)</td>
<td>DyLight®800</td>
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<tr>
<td>Goat Anti Mouse IgG (STAR76...)</td>
<td>RPE</td>
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<tr>
<td>Rabbit Anti Mouse IgG (STAR12...)</td>
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<td>Aik. Phos., HRP</td>
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<tr>
<td>Human Anti Mouse IgG1 (HCA036...)</td>
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<tr>
<td>Goat Anti Mouse IgG (STAR70...)</td>
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Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)