Datasheet: MCA2098G

BATCH NUMBER 152207

Description: MOUSE ANTI HUMAN IgG4
Specificity: IgG4
Format: Purified
Product Type: Monoclonal Antibody
Clone: HP6025
Isotype: IgG1
Quantity: 0.2 mg

Product Details

Target Species

Human

Species Cross Reactivity
Reacts with: Chimpanzee
N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form
Purified IgG - liquid

Buffer Solution
Borate buffered saline

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.

<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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<tr>
<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.
Preservative
Stabilisers 0.09% Sodium Azide

Approx. Protein
Concentrations IgG concentration 0.5mg/ml

Immunogen Purified IgG4

External Database
Links
UniProt:
P01861 Related reagents

Entrez Gene:
3503 IGHG4 Related reagents

RRID AB_323685

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 (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.

Guarantee
12 months from date of despatch

Health And Safety Information
Material Safety Datasheet documentation #10077 available at: https://www.bio-rad-antibodies.com/SDS/MCA2098G

Regulatory
For research purposes only

Related Products
## Recommended Secondary Antibodies

<table>
<thead>
<tr>
<th>Antibody Description</th>
<th>Detection Types</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 (STAR12...)</td>
<td>RPE</td>
</tr>
<tr>
<td>Goat Anti Mouse IgG IgA IgM (STAR87...)</td>
<td>Alk. Phos., HRP</td>
</tr>
<tr>
<td>Goat Anti Mouse IgG (STAR76...)</td>
<td>RPE</td>
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<tr>
<td>Goat Anti Mouse IgG (Fc) (STAR120...)</td>
<td>FITC, HRP</td>
</tr>
<tr>
<td>Rabbit Anti Mouse IgG (STAR13...)</td>
<td>HRP</td>
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<tr>
<td>Goat Anti Mouse IgG (STAR70...)</td>
<td>FITC</td>
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<tr>
<td>Goat Anti Mouse IgG (H/L) (STAR117...)</td>
<td>Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP</td>
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<tr>
<td>Rabbit Anti Mouse IgG (STAR9...)</td>
<td>FITC</td>
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'M366180:200529'  
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