## Datasheet: MCA2098P

### Product Details

<table>
<thead>
<tr>
<th>Description</th>
<th>MOUSE ANTI HUMAN IgG4:HRP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity</td>
<td>IgG4</td>
</tr>
<tr>
<td>Format</td>
<td>HRP</td>
</tr>
<tr>
<td>Product Type</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone</td>
<td>HP6025</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity</td>
<td>0.2 mg</td>
</tr>
</tbody>
</table>

### Applications

<table>
<thead>
<tr>
<th>Target</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immunohistology - Frozen</td>
<td>1/40 - 1/80</td>
</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td>1/25600 - 1/51200</td>
</tr>
<tr>
<td>ELISA</td>
<td>1/5000 - 1/10000</td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
</tr>
</tbody>
</table>

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).

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 conjugated to Horseradish Peroxidase (HRP) - liquid

### Preparation

Purified IgG prepared by affinity chromatography on Protein A

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.01% Thiomersal

### Approx. Protein Concentrations

IgG concentration 1 mg/ml

### Immunogen

Purified IgG4
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).

**Histology Positive Control Tissue**

Tonsil

**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**


**Regulatory**

For research purposes only

**Recommended Useful Reagents**

- AbGUARD® HRP STABILIZER PLUS (BUF052A)
- AbGUARD® HRP STABILIZER PLUS (BUF052B)
- AbGUARD® HRP STABILIZER PLUS (BUF052C)
- TMB CORE (BUF056A)
- TMB CORE+ (BUF062A)
- TMB SIGNAL+ (BUF054A)