Datasheet: MCA2098P

**Description:** MOUSE ANTI HUMAN IgG4:HRP

**Specificity:** IgG4

**Format:** HRP

**Product Type:** Monoclonal Antibody

**Clone:** HP6025

**Isotype:** IgG1

**Quantity:** 0.2 mg

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### 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>
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<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Immunohistology - Frozen</td>
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<td></td>
<td></td>
<td>1/40 - 1/80</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>1/25600 - 1/51200</td>
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<tr>
<td>Western Blotting</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 conjugated to Horseradish Peroxidase (HRP) - liquid

**Preparation**

Purified IgG prepared by affinity chromatography on Protein A

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

- 0.05% Proclin™ 300
- 0.002% Methylisothiazolone
- 0.002% Bromonitrodioxane
- 1% Bovine Serum Albumin

**Approx. Protein Concentrations**

IgG concentration 1 mg/ml

**Immunogen**

Purified IgG4
External Database Links

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<tr>
<th>UniProt:</th>
<th>Related reagents</th>
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Entrez Gene:

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<td>3503</td>
<td>IGHG4</td>
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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*).

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.

### Shelf Life

18 months from date of despatch.

### Acknowledgements

Proclin™ 300 is a trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow.

### Health And Safety Information


### Regulatory

For research purposes only

### Related Products

**Recommended Useful Reagents**

- AbGUARD® HRP STABILIZER PLUS (BUF052A)
- AbGUARD® HRP STABILIZER PLUS (BUF052B)
- AbGUARD® HRP STABILIZER PLUS (BUF052C)
- TMB CORE (BUF056A)
- TMB CORE PRESTAINED (BUF057A)
- TMB CORE+ (BUF062A)
- TMB SIGNAL+ (BUF054A)
- AbGUARD® HRP STABILIZER PLUS (BUF052A)
- AbGUARD® HRP STABILIZER PLUS (BUF052B)
- AbGUARD® HRP STABILIZER PLUS (BUF052C)
- TMB CORE (BUF056A)
- TMB CORE PRESTAINED (BUF057A)
- TMB CORE+ (BUF062A)
- TMB SIGNAL+ (BUF054A)