

## Datasheet: 919001

<b>Description:</b>	MOUSE ANTI HUMAN IgG4
<b>Specificity:</b>	IgG4
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	HP6023
<b>Isotype:</b>	IgG3
<b>Quantity:</b>	0.5 mg

## 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).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			
Western Blotting			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared from tissue culture supernatant
<b>Buffer Solution</b>	Borate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
<b>Immunogen</b>	Pool of 5-6 individually purified Human IgG4 myeloma proteins
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01861</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3503</a> IGHG4   <a href="#">Related reagents</a></p>

<b>Specificity</b>	<b>Mouse anti Human IgG4 antibody, clone HP6023</b> recognises the pFc' region of human IgG4.
<b>References</b>	<p>1. Mutapi, F. <i>et al.</i> (2002) The effect of treatment on the age-antibody relationship in children infected with <i>Schistosoma mansoni</i> and <i>Schistosoma haematobium</i>. <a href="#">Mem Inst Oswaldo Cruz. 97 Suppl 1: 173-80.</a></p> <p>2. Martinsson, K. <i>et al.</i> (2017) Immunoglobulin (Ig)G1 and IgG4 anti-cyclic citrullinated peptide (CCP) associate with shared epitope, whereas IgG2 anti-CCP associates with smoking in patients with recent-onset rheumatoid arthritis (the Swedish TIRA project). <a href="#">Clin Exp Immunol. 188 (1): 53-62.</a></p>
<b>Storage</b>	<p>Store at -20°C only.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Shelf Life</b>	12 months from the date of despatch.
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation available at:</p> <p>Material Safety Datasheet Documentation #10123 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10123.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10123.pdf</a></p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@549</a> , <a href="#">DyLight@649</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight@800</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Human Anti Mouse IgG3 (HCA039...)	<a href="#">FITC</a> , <a href="#">HRP</a> , <a href="#">RPE</a>

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