

## Datasheet: STAR70

**BATCH NUMBER 1710**

<b>Description:</b>	GOAT ANTI MOUSE IgG:FITC (RAT ADSORBED)
<b>Specificity:</b>	IgG
<b>Format:</b>	FITC
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<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
Flow Cytometry	▪			1/50 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

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.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
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FITC	490	525					

**Antiserum Preparation** Antisera to mouse IgG were raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin

<b>Approx. Protein Concentrations</b>	IgG concentration 0.5 mg/ml
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<b>Immunogen</b>	Mouse IgG.
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P01869</a>    <a href="#">Related reagents</a></p> <p><a href="#">P01865</a>    <a href="#">Related reagents</a></p> <p><a href="#">P01864</a>    <a href="#">Related reagents</a></p> <p><a href="#">P01868</a>    <a href="#">Related reagents</a></p> <p><a href="#">P03987</a>    <a href="#">Related reagents</a></p> <p><a href="#">P01867</a>    <a href="#">Related reagents</a></p> <p><a href="#">P01863</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">16017</a>    Ighg1    <a href="#">Related reagents</a></p> <p><a href="#">380793</a>    Igh-1a    <a href="#">Related reagents</a></p> <p><a href="#">16016</a>    Ighg2b    <a href="#">Related reagents</a></p> <p><a href="#">16017</a>    Ighg1    <a href="#">Related reagents</a></p> <p><a href="#">380793</a>    Igh-1a    <a href="#">Related reagents</a></p> <p><a href="#">380795</a>    AI324046    <a href="#">Related reagents</a></p> <p><a href="#">380793</a>    Igh-1a    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Igh-4
<b>RRID</b>	AB_321914
<b>Specificity</b>	<p><b>Goat anti Mouse IgG antibody</b> recognizes mouse IgG. The reagent has been adsorbed to minimise cross-reactivity with rat immunoglobulins and is therefore of particular value in detecting mouse primary antibodies bound to rat tissues.</p> <p>Goat IgG shows minimal binding to Fc receptors on rat tissue. We recommend diluting this product in buffer containing 10% normal rat serum to remove any residual cross-reactivity.</p>
<b>Flow Cytometry</b>	Use 50ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Voulgaraki, D. <i>et al.</i> (2005) Multivalent recombinant proteins for probing functions of leucocyte surface proteins such as the CD200 receptor. <a href="#">Immunology. 115 (3): 337-46.</a></li> <li>2. Win, T.S. <i>et al.</i> (2009) Donor CD4 T cells contribute to cardiac allograft vasculopathy by providing help for autoantibody production. <a href="#">Circ Heart Fail. 2 (4): 361-9.</a></li> <li>3. Motallebzadeh, R. <i>et al.</i> (2012) Blocking lymphotoxin signaling abrogates the development of ectopic lymphoid tissue within cardiac allografts and inhibits effector antibody responses. <a href="#">FASEB J. 26 (1): 51-62.</a></li> <li>4. Conlon, T.M. <i>et al.</i> (2012) Germinal center alloantibody responses are mediated exclusively by indirect-pathway CD4 T follicular helper cells. <a href="#">J Immunol. 188 (6): 2643-52.</a></li> <li>5. Fitzgerald, A.M. <i>et al.</i> (2012) The effects of transforming growth factor-β2 on the expression of follistatin and activin A in normal and glaucomatous human trabecular meshwork cells and tissues. <a href="#">Invest Ophthalmol Vis Sci. 53 (11): 7358-69.</a></li> </ol>

6. Gibbings, D.J. *et al.* (2007) CD8 $\alpha$  is expressed by human monocytes and enhances Fc $\gamma$ R-dependent responses. [BMC Immunol. 8: 12.](#)
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8. Strazielle, N. *et al.* (2016) T-Lymphocytes Traffic into the Brain across the Blood-CSF Barrier: Evidence Using a Reconstituted Choroid Plexus Epithelium. [PLoS One. 11 \(3\): e0150945.](#)
9. Naaldijk, Y. *et al.* (2016) Effect of systemic transplantation of bone marrow-derived mesenchymal stem cells on neuropathology markers in APP/PS1 Alzheimer mice. [Neuropathol Appl Neurobiol. Feb 26. \[Epub ahead of print\]](#)
10. Harper, I.G. *et al.* (2016) Augmentation of Recipient Adaptive Alloimmunity by Donor Passenger Lymphocytes within the Transplant. [Cell Rep. 15 \(6\): 1214-27.](#)
11. Tyrsina, E. *et al.* (2019) Detection and quantification of VEGFR-1 in the nuclei of tumor cells by a new flow cytometry-based method. [J Immunotoxicol. 16 \(1\): 74-81.](#)

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**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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/STAR7010041>

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**Regulatory**

For research purposes only

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