Datasheet: STAR70

Description:	GOAT ANTI MOUSE IgG:FITC (RAT ADSORBED)
Specificity:	IgG
Format:	FITC
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species

Mouse

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
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.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin

Approx. Protein Concentrations

IgG concentration 0.5 mg/ml

Immunogen	Mouse IgG.
External Database Links	**UniProt:** P01869 Related reagents P01865 Related reagents P01864 Related reagents P01868 Related reagents P03987 Related reagents P01867 Related reagents P01863 Related reagents **Entrez Gene:** 16017 Ighg1 Related reagents 380793 Igh-1a Related reagents 16016 Ighg2b Related reagents 16017 Ighg1 Related reagents 380793 Igh-1a Related reagents 380795 AI324046 Related reagents 380793 Igh-1a Related reagents
Synonyms	Igh-4
RRID	AB_321914
Specificity	**Goat anti Mouse IgG antibody** 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. 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.
Flow Cytometry	Use 50ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Voulgaraki, D. *et al.* (2005) Multivalent recombinant proteins for probing functions of leucocyte surface proteins such as the CD200 receptor. Immunology. 115 (3): 337-46. 2. Gibbings, D.J. *et al.* (2007) CD8α is expressed by human monocytes and enhances FcγR-dependent responses. BMC Immunol. 8: 12. 3. Win, T.S. *et al.* (2009) Donor CD4 T cells contribute to cardiac allograft vasculopathy by providing help for autoantibody production. Circ Heart Fail. 2 (4): 361-9. 4. Fitzgerald, A.M. *et al.* (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. Invest Ophthalmol Vis Sci. 53 (11): 7358-69. 5. Conlon, T.M. *et al.* (2012) Germinal center alloantibody responses are mediated exclusively by indirect-pathway CD4 T follicular helper cells. J Immunol. 188 (6): 2643-52. 6. Motallebzadeh, R. *et al.* (2012) Blocking lymphotoxin signaling abrogates the

development of ectopic lymphoid tissue within cardiac allografts and inhibits effector antibody responses. FASEB J. 26 (1): 51-62.
7. Chen, F. *et al.* (2015) Generation of B Cell-Deficient Pigs by Highly Efficient CRISPR/Cas9-Mediated Gene Targeting. J Genet Genomics. 42 (8): 437-44.
8. Harper, I.G. *et al.* (2016) Augmentation of Recipient Adaptive Alloimmunity by Donor Passenger Lymphocytes within the Transplant. Cell Rep. 15 (6): 1214-27.
9. Naaldijk, Y. *et al.* (2017) Effect of systemic transplantation of bone marrow-derived mesenchymal stem cells on neuropathology markers in APP/PS1 Alzheimer mice. Neuropathol Appl Neurobiol. 43 (4): 299-314.
10. 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.
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.
12. Niedźwiedzka-Rystwej, P. *et al.* (2020) B and T lymphocytes in rabbits change according to the sex and throughout the year. Pol J Vet Sci. 23 (1): 37-42.

Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/STAR70 10041
Regulatory	For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M428748:240301'

Printed on 01 Mar 2024