

Datasheet: STAR133F

BATCH NUMBER 166217

| | |
|----------------------|----------------------------|
| Description: | GOAT ANTI MOUSE IgG2a:FITC |
| Specificity: | IgG2a |
| 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 | ▪ | | | 1/1000 |
| Immunohistology - Frozen | ▪ | | | |
| Immunohistology - Paraffin | | | ▪ | |
| Immunofluorescence | ▪ | | | Neat - 1/10 |

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 | | | | | | |
|---------------------------------|--|-------------------|---------------------|-------------------|------|-----|-----|
| Species Cross Reactivity | Does not react with:Human | | | | | | |
| Product Form | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid | | | | | | |
| Max Ex/Em | <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 |
| Fluorophore | Excitation Max (nm) | Emission Max (nm) | | | | | |
| FITC | 490 | 525 | | | | | |

Antiserum Preparation Antisera to IgG2a were raised by repeated immunisation of goats with purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative <0.1% Sodium Azide (NaN₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen IgG2a paraproteins from BALB/c mice

External Database Links

UniProt:

[P01865](#) [Related reagents](#)

[P01863](#) [Related reagents](#)

[P01864](#) [Related reagents](#)

Entrez Gene:

[380793](#) Igh-1a [Related reagents](#)

[380793](#) Igh-1a [Related reagents](#)

[380793](#) Igh-1a [Related reagents](#)

RRID AB_1102657

Specificity **Goat anti Mouse IgG2a antibody** recognizes Mouse IgG2a. This antibody has been cross absorbed against mouse IgM, IgG1, IgG2b, IgG3 and IgA, pooled human sera and purified human paraproteins. Goat anti Mouse IgG2a antibody shows minimal cross-reactivity with human immunoglobulins.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Knipping, K. *et al.* (2011) A gastrointestinal rotavirus infection mouse model for immune modulation studies. [Virology J. 8: 109.](#)
2. Bagai, U. & Pawar, A. (2013) A blood stage fraction of *Plasmodium berghei*. induces protective and long lasting immune response in BALB/c mice. [Parasitol Int. 62 \(3\): 329-36.](#)
3. Hwang, S.R. *et al.* (2015) Altered expression levels of neurodevelopmental proteins in fetal brains of BTBR T+tf/J mice with autism-like behavioral characteristics. [J Toxicol Environ Health A. 78 \(8\): 516-23.](#)
4. Zhao, Z. *et al.* (2015) Multiple B-cell epitope vaccine induces a *Staphylococcus* enterotoxin B-specific IgG1 protective response against MRSA infection. [Sci Rep. 5: 12371.](#)
5. Minaei, S. *et al.* (2018) Propranolol efficacy as a novel adjuvant for immunization against *Toxoplasma gondii*. tachyzoites. [Exp Parasitol. 194: 60-66.](#)
6. Kushwaha, V. *et al.* (2019) Troponin 1 of human filarial parasite *Brugia malayi*.: cDNA cloning, expression, purification, and its immunoprophylactic potential. [Parasitol Res. 118 \(6\): 1849-63.](#)
7. Nedumpun, T. *et al.* (2019) Negative Immunomodulatory Effects of Type 2 Porcine Reproductive and Respiratory Syndrome Virus-Induced Interleukin-1 Receptor Antagonist on Porcine Innate and Adaptive Immune Functions. [Front Immunol. 10: 579.](#)
8. Gatkowska, J. *et al.* (2019) The Impact of the Antigenic Composition of Chimeric Proteins on Their Immunoprotective Activity against Chronic Toxoplasmosis in Mice. [Vaccines \(Basel\). 7\(4\):154.](#)

9. Mola, S. *et al.* (2020) A transcriptome-based approach to identify functional modules within and across primary human immune cells. [PLoS One. 15 \(5\): e0233543.](#)
10. Han, H. *et al.* (2021) Metal arsenic mediated enhancement of type-2 immunity in brains with altered locomotive activities in mice with autism-like behavioral characteristics [Toxicological Research. 38 \(1\): 27-33.](#)
11. Sessevmez, M. *et al.* (2023) Induction of humoral and cell-mediated immunity in mice by chitosan-curdlan composite nanoparticles administered intranasally and subcutaneously [J Drug Deliv Sci Technol. 86: 104704.](#)
12. Bauer, L. *et al.* (2023) The pro-inflammatory response to influenza A virus infection is fueled by endothelial cells. [Life Sci Alliance. 6 \(7\): e202201837.](#)
13. Faber, E. *et al.* (2024) Identification of T cell and linear B cell epitopes on African horse sickness virus serotype 4 proteins VP1-1, VP2, VP4, VP7 and NS3. [Vaccine. 42 \(2\): 136-45.](#)

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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/STAR133F>
10040

Regulatory For research purposes only

| | | | | | |
|----------------------------------|---|------------------|---|---------------|---|
| North & South America | Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com | Worldwide | Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com | Europe | Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com |
|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M421259:230706'

Printed on 09 Mar 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)