

Datasheet: STAR12A

BATCH NUMBER 174355

Description:	RABBIT F(ab') ₂ ANTI MOUSE IgG:RPE
Specificity:	IgG
Format:	RPE
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 ml

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	■			1/20 - 1/100

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	F(ab')2 fragment of IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578

Antiserum Preparation Antisera to mouse IgG were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by ion exchange chromatography.

Buffer Solution Phosphate buffered saline

Preservative <0.1% Sodium Azide

Stabilisers

1%	Bovine Serum Albumin
5%	Sucrose

Immunogen Mouse IgG.

External Database

Links

UniProt:

P01869	Related reagents
P03987	Related reagents
P01867	Related reagents
P01864	Related reagents
P01865	Related reagents
P01868	Related reagents
P01863	Related reagents

Entrez Gene:

16017	Ighg1	Related reagents
380795	AI324046	Related reagents
16016	Ighg2b	Related reagents
16017	Ighg1	Related reagents
380793	Igh-1a	Related reagents
380793	Igh-1a	Related reagents
380793	Igh-1a	Related reagents

Synonyms Igh-4

RRID AB_321922

Specificity

Rabbit F(ab')₂ anti Mouse IgG antibody is a polyclonal antibody raised in rabbit that recognises mouse immunoglobulin G (IgG). It is supplied as an F(ab')₂ fragment. This antibody has been validated for use in flow cytometry. Immunoglobulin G (IgG) is the most abundant antibody isotype in mice and plays a central role in adaptive humoral immunity. It is produced by plasma cells following class-switch recombination and is widely distributed in the circulation and extracellular fluids. IgG antibodies mediate a variety of immune effector functions, including antigen neutralisation, opsonisation, and activation of the classical complement pathway via interaction with C1q. The F(ab')₂ fragment in this product retains antigen-binding specificity while lacking the Fc region, thereby reducing non-specific binding to Fc receptors and improving signal specificity in flow cytometry assays.

Flow Cytometry Use 50ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Dasgupta, G. *et al.* (2011) Engagement of TLR2 reverses the suppressor function of conjunctiva CD4+CD25+ regulatory T cells and promotes herpes simplex virus epitope-specific CD4+CD25- effector T cell responses. [Invest Ophthalmol Vis Sci. 52 \(6\): 3321-33.](#)
2. Jones, D.C. *et al.* (2011) HLA Class I Allelic Sequence and Conformation Regulate Leukocyte Ig-Like Receptor Binding. [J Immunol. 186: 2990-7.](#)

Storage

This product is shipped at ambient temperature.
Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/STAR12A
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Regulatory	For research purposes only
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Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M454613:260729'

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