

Product datasheet

Rat monoclonal [SB84a] Anti-Mouse IgG2a heavy chain (Alexa Fluor® 647) ab172325

[3 References](#) [2 Images](#)

Overview

Product name	Rat monoclonal [SB84a] Anti-Mouse IgG2a heavy chain (Alexa Fluor® 647)
Host species	Rat
Target species	Mouse
Specificity	This antibody is specific to Mouse IgG2a heavy chain
Tested applications	Suitable for: IHC-Fr, Flow Cyt
Immunogen	The details of the immunogen for this antibody are not available.
Conjugation	Alexa Fluor® 647. Ex: 652nm, Em: 668nm

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Stable for 12 months at -20°C. Store In the Dark.
Storage buffer	Preservative: 0.02% Sodium azide Constituents: 23% Glycerol (glycerin, glycerine), PBS, 1% BSA
Purity	Immunogen affinity purified
Clonality	Monoclonal
Clone number	SB84a
Isotype	IgG1
Light chain type	kappa
General notes	Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to

provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.

Applications

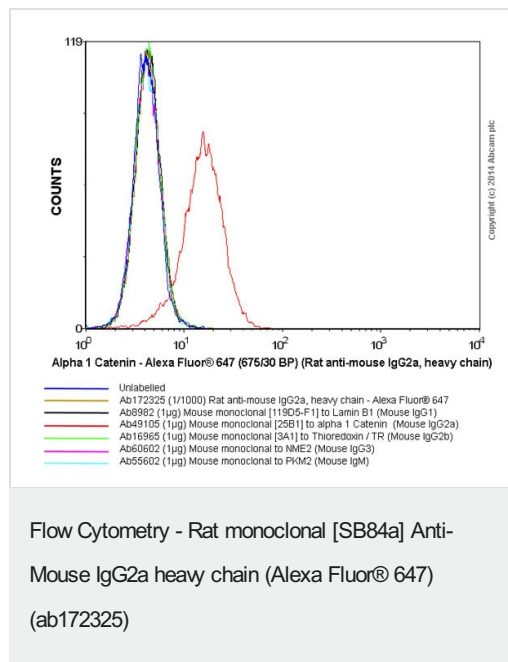
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab172325 in the following tested applications.

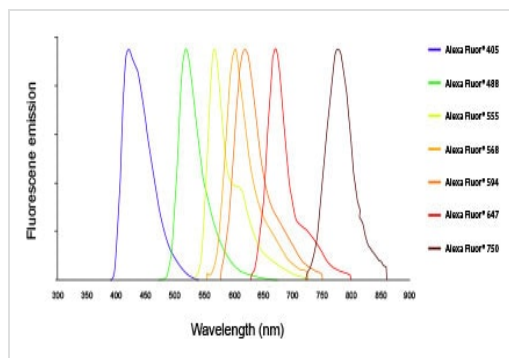
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr		Use at an assay dependent concentration.
Flow Cyt		1/1000 - 1/2000. ab176104 - Mouse monoclonal IgG2a (Alexa Fluor® 647), is suitable for use as an isotype control to complement this secondary antibody.

Images



Overlay histogram showing subclass specificity of ab172325. HeLa cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% serum / 0.3M glycine to block non-specific protein-protein interactions followed by the primary antibody (1µg/1x10⁶ cells) as indicated: **ab8982** (Mouse IgG1), **ab49105** (Mouse IgG2a), **ab16965** (Mouse IgG2b), **ab60602** (Mouse IgG3), **ab55602** (Mouse IgM) for 30 min at 22°C. The secondary antibody (ab172325 - Rat monoclonal (SB84a) Anti-Mouse IgG2a, heavy chain - Alexa Fluor® 647) was used at 1/1000 dilution for 30 min at 22°C. Unlabelled (blue line) and secondary only (gold line) samples were also used as negative controls. Acquisition of >5,000 events were collected using a solid-state 25mW red diode laser (635nm) and 675/30 bandpass filter.



Emission spectra of Alexa Fluor® fluorochromes available in our catalog. Line colors represent the approximate visible colors of the wavelength maxima.

Alexa Fluor® - Rat monoclonal [SB84a] Anti-Mouse
IgG2a heavy chain (Alexa Fluor® 647) (ab172325)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors