Technical Data Sheet

FITC Rat Anti-Mouse IgG1

Product Information

Material Number: 562026

Alternate Name: Ighg1; Immunoglobulin heavy constant gamma 1; Igh-4

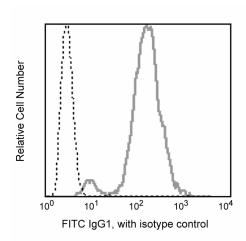
Size 0.5 mg/ml Concentration: A85-1 Clone:

Immunogen: Pooled Mouse IgG1 Isotype: Rat (LOU) IgG1, ĸ Reactivity: QC Testing: Mouse

Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium Storage Buffer:

Description

The A85-1 antibody reacts specifically with mouse IgG1 of Igh-Ca and Igh-Cb haplotypes. It does not react with other Ig isotypes. Detection of surface immunoglobulin on B lymphoma cells has been demonstrated with the A85-1 monoclonal antibody. A suspension of pooled mouse IgG1 was used as the source of immunogen.



Detection of intracellular mouse IgG1 in an antibody-secreting hybridoma cell line. Cells were fixed, permeabilized, and stained according to the method described below using FITC Rat anti-Mouse IgG1 mAb (solid line) or FITC Rat IgG1, κ Isotype Control(dotted line, Cat. No. 554684). Flow cytometry was performed on a BD FACSCalibur™ flow cytometry system.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with FITC under optimum conditions, and unreacted FITC was removed.

Application Notes

Application

- 1	ittutui		
	Flow cytometry	Routinely Tested	
	Intracellular staining (flow cytometry)	Tested During Development	

Recommended Assay Procedure:

FITC-conjugated A85-1 antibody may be used as a primary or secondary reagent in immunofluorescent staining.

IMMUNOFLUORESCENT STAINING OF INTRACELLULAR IMMUNOGLOBULIN (Ig) PROTOCOL

- 1. Prepare a single-cell suspension and determine cell number.
- 2. Suspend cells in BD Pharmingen™ Stain Buffer with FBS (Cat. No. 554656) at 2 x 10⁷ cells/ml and transfer to U-bottom microwell plates in 50 μl/well for immunofluorescent staining.
- 3. Block Fcγ receptors by adding 0.2 μg of purified 2.4G2 antibody (Mouse BD Fc BlockTM purified anti-mouse CD16/CD32 mAb 2.4G2) (Cat. No. 553141/553142) in 50 µl of staining buffer to each well.
- 4. Incubate 5 minutes on ice.

BD Biosciences

bdbiosciences.com

Asia Pacific Europe Japan 877.232.8995 888.268.5430 32.53.720.550 0120.8555.90 65.6861.0633

For country-specific contact information, visit bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2011 BD



- 5. Add 200 µl of staining buffer/well and resuspend cells. Centrifuge at 250 x g for 5 minutes and aspirate supernatant.
- 6. Block surface Ig with purified A85-1 mAb (Cat. No. 553440) by adding 1.0 μg per sample in 50 μl of staining buffer/well.
- 7. Incubate 15 minutes on ice.
- 8. Wash 2x as described in Step 5.
- 9. Resuspend cells in 100 μl of BD Cytofix/CytopermTM intracellular staining buffer (BD Cytofix/CytopermTM Kit, Cat. No. 554714) per well.
- 10. Incubate 30 minutes at room temperature.
- 11. Wash 2x with $200 \mu l$ of 1x Perm/Wash buffer (provided in the BD Cytofix/Cytoperm Kit) per well. Centrifuge at 250 x g for 5 minutes and aspirate supernatant between washes.
- 12. Stain intracellular Ig by adding $\leq 1~\mu g$ of FITC-conjugated A85-1 mAb in 50 μl of 1 x Perm/Wash buffer/well.
 - Note: Other antibodies recommended for staining of intracellular markers may be added during this step as described in Step 12.
- 13. Incubate for 30 minutes at room temperature.
- 14. Wash 2x as described in Step 11.
- 15. Resuspend and transfer samples in 100 µl of staining buffer to tubes appropriate for analysis with a flow cytometer. Bring volume in each tube to 400 µl with staining buffer.
- 16. Analyze samples on a flow cytometer.

Note: Surface markers may be stained during this step as described in the "Immunofluorescent Staining of Mouse and Rat Leukocytes for Flow Cytometry" in the Technical Protocols section of our website at http://www.bdbiosciences.com/support/resources/flowcytometry/index.jsp

Suggested Companion Products

Catalog Number	Name	Size	Clone	
554714	BD Cytofix/Cytoperm™ Fixation/Permeablization Kit	250 tests	(none)	
554684	FITC Rat IgG1, κ Isotype Control	0.1 mg	R3-34	
554656	Stain Buffer (FBS)	500 ml	(none)	
553141	Purified Rat Anti-Mouse CD16/CD32 (Mouse BD Fc Block TM)	0.1 mg	2.4G2	

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
- Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
- 4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
- 5. An isotype control should be used at the same concentration as the antibody of interest.

562026 Rev. 1 Page 2 of 2