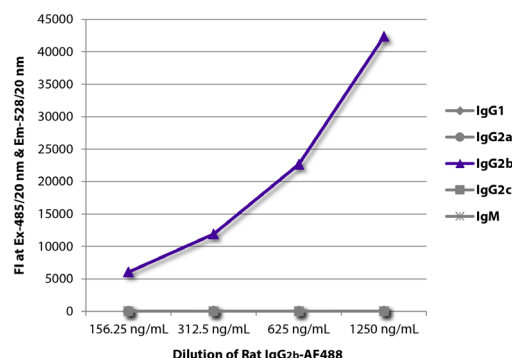




Rat IgG_{2b} Isotype Control

Cat. No.	Format	Size
0118-01	Purified (UNLB)	0.5 mg
0118-02	Fluorescein (FITC)	0.5 mg
0118-04	Alkaline Phosphatase (AP)	1.0 mL
0118-05	Horseradish Peroxidase (HRP)	1.0 mL
0118-08	Biotin (BIOT)	0.5 mg
0118-09	R-phycoerythrin (PE)	0.1 mg
0118-10	R-phycoerythrin-Texas Red® (PE/TXRD)	0.1 mg
0118-11	Allophycocyanin (APC)	0.1 mg
0118-13	Spectral Red® (SPRD)	0.1 mg
0118-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg
0118-15	Cyanine 5 (CY5)	0.1 mg
0118-17	R-phycoerythrin-Cyanine 7 (PE/CY7)	0.1 mg
0118-18	Allophycocyanin-Cyanine 5.5 (APC/CY5.5)	0.1 mg
0118-19	Allophycocyanin-Cyanine 7 (APC/CY7)	0.1 mg
0118-26	Pacific Blue™ (PACBLU)	0.1 mg
0118-27	Alexa Fluor® 700 (AF700)	0.1 mg
0118-30	Alexa Fluor® 488 (AF488)	0.1 mg
0118-31	Alexa Fluor® 647 (AF647)	0.1 mg



FLISA plate was coated with Mouse Anti-Rat IgG₁-UNLB (SB Cat. No. 3061-01), Mouse Anti-Rat IgG_{2a}-UNLB (SB Cat. No. 3065-01), Mouse Anti-Rat IgG_{2b}-UNLB (SB Cat. No. 3070-01), Mouse Anti-Rat IgG_{2c}-UNLB (SB Cat. No. 3075-01), and Mouse Anti-Rat IgM-UNLB (SB Cat. No. 3080-01). Serially diluted Rat IgG_{2b}-AF488 (SB Cat. No. 0118-30) was captured and fluorescence intensity quantified.

Overview

Clone	KLH/G2b-1-2
Isotype	Rat IgG _{2b} K
Specificity	KLH

Applications

FC – Quality tested ^{1-11,14}
 ELISA – Quality tested
 FLISA – Quality tested
 IHC-FS – Reported in literature ¹²
 IHC-PS – Reported in literature ¹⁴
In vivo control – Reported in literature ¹³

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	FITC, BIOT, PACBLU, and AF488 conjugates	≤ 1 µg/10 ⁶ cells
	PE, PE/TXRD, APC, SPRD, CY5, PE/CY7, APC/CY5.5, APC/CY7, AF647 and AF700 conjugates	≤ 0.1 µg/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL	
ELISA	Purified (UNLB) antibody	≤ 1 µg/mL
	AP conjugate	1:2,000 – 1:4,000
	HRP conjugate	1:4,000 – 1:8,000
Other Applications	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The alkaline phosphatase (AP) conjugate is supplied as 1.0 mL in a stock solution of 50 mM Tris/1 mM MgCl₂/50% glycerol, pH 8.0, containing NaN₃ as preservative. Store at 2-8°C or long-term at -20°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL in a stock solution of 50% glycerol/50% PBS, pH 7.4. *No preservative added.* Store at 2-8°C or long-term at -20°C.
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 647 (AF647), Alexa Fluor® 700 (AF700), and Pacific Blue™ (PACBLU) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Spectral Red® (SPRD), R-phycoerythrin-Texas Red® (PE/TXRD), R-phycoerythrin-Cyanine 7 (PE/CY7), allophycocyanin-Cyanine 5.5 (APC/CY5.5) and allophycocyanin-Cyanine 7 (APC/CY7) conjugates are supplied as 0.1 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- The Cyanine 5 (CY5) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Frederiksen PD, Thiel S, Larsen CB, Jensenius JC. M-ficolin, an innate immune defence molecule, binds patterns of acetyl groups and activates complement. *Scand J Immunol.* 2005;62:462-73. (FC)
2. Yamaji T, Mitsuki M, Teranishi T, Hashimoto Y. Characterization of inhibitory signaling motifs of the natural killer cell receptor Siglec-7: attenuated recruitment of phosphatases by the receptor is attributed to two amino acids in the motifs. *Glycobiology.* 2005;15:667-76. (FC)
3. Chen L, Arora M, Yarlagadda M, Oriss TB, Krishnamoorthy N, Ray A, et al. Distinct responses of lung and spleen dendritic cells to the TLR9 agonist CpG oligodeoxynucleotide. *J Immunol.* 2006;177:2373-83. (FC)
4. Mor A, Planer D, Luboshits G, Afek A, Metzger S, Chajek-Shaul T, et al. Role of naturally occurring CD4⁺ CD25⁺ regulatory T cells in experimental atherosclerosis. *Arterioscler Thromb Vasc Biol.* 2007;27:893-900. (FC)
5. Mausner-Fainberg K, Luboshits G, Mor A, Maysel-Auslender S, Rubinstein A, Keren G, et al. The effect of HMG-CoA reductase inhibitors on naturally occurring CD4⁺CD25⁺ T cells. *Atherosclerosis.* 2008;197:829-39. (FC)
6. Afek A, Kogan E, Maysel-Auslender S, Mor A, Regev E, Rubinstein A, et al. Clopidogrel attenuates atheroma formation and induces a stable plaque phenotype in apolipoprotein E knockout mice. *Microvasc Res.* 2009;77:364-9. (FC)
7. Vanden Bush TJ, Buchta CM, Claudio J, Bishop GA. Cutting Edge: Importance of IL-6 and cooperation between innate and adaptive immune receptors in cellular vaccination with B lymphocytes. *J Immunol.* 2009;183:4833-7. (FC)
8. Lee H, Trott JS, Haque S, McCormick S, Chiorazzi N, Mongini PK. A cyclooxygenase-2/prostaglandin E₂ pathway augments activation-induced cytosine deaminase expression within replicating human B cells. *J Immunol.* 2010;185:5300-14. (FC)
9. Wismar R, Brix S, Lærke HN, Frøkiær H. Comparative analysis of a large panel of non-starch polysaccharides reveals structures with selective regulatory properties in dendritic cells. *Mol Nutr Food Res.* 2011;55:443-54. (FC)
10. Chu VT, Fröhlich A, Steinhauser G, Scheel T, Roch T, Fillatreau S, et al. Eosinophils are required for the maintenance of plasma cells in the bone marrow. *Nat Immunol.* 2011;12:151-60. (FC)
11. Koduru S, Wong E, Strowig T, Sundaram R, Zhang L, Strout MP, et al. Dendritic cell-mediated activation-induced cytidine deaminase (AID)-dependent induction of genomic instability in human myeloma. *Blood.* 2012;119:2302-9. (FC)
12. Løvås T, Bruusgaard JC, Øynebråten I, Gundersen K, Bogen B. DNA vaccines: MHC II-targeted vaccine protein produced by transfected muscle fibres induces a local inflammatory cell infiltrate in mice. *PLoS One.* 2014;9(10):e108069. (IHC-FS)
13. Gong Y, Koh D. Neutrophils promote inflammatory angiogenesis via release of preformed VEGF in an in vivo corneal model. *Cell Tissue Res.* 2010;339:437-48. (In vivo control)
14. Widney DP, Gui D, Popoviciu LM, Said JW, Breen EC, Huang X. Expression and function of the chemokine, CXCL13, and its receptor, CXCR5, in AIDS-associated non-Hodgkin's lymphoma. *AIDS Research and Treatment.* 2010;2010:164586. (FC, IHC-PS)

Texas Red® is a registered trademark of Molecular Probes, Inc.

Spectral Red® is a registered trademark of Southern Biotechnology Associates, Inc.

Spectral Red® is a PE/CY5 tandem conjugate.

Cy™ is a trademark of Cytiva or one of its subsidiaries.

Alexa Fluor® 488, 647, 700 and Pacific Blue™ are provided under an agreement between Molecular Probes, Inc. (a wholly owned subsidiary of Invitrogen Corporation), and Southern Biotechnology Associates, Inc., and the manufacture, use, sale or import of this product may be subject to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents, owned by Molecular Probes, Inc. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The buyer cannot sell or otherwise transfer (a) this product (b) its components or (c) materials made using this product or its components to a third party or otherwise use this product or its components or materials made using this product or its components for Commercial Purposes. Commercial Purposes means any activity by a party for consideration and may include, but is not limited to: (1) use of the product or its components in manufacturing; (2) use of the product or its components to provide a service, information, or data; (3) use of the product or its components for therapeutic, diagnostic or prophylactic purposes; or (4) resale of the product or its components, whether or not such product or its components are resold for use in research. For information on purchasing a license to this product for any other use, contact Molecular Probes, Inc., Business Development, 29851 Willow Creek Road, Eugene, OR 97402, USA, Tel: (541) 465-8300. Fax: (541) 335-0504.

TB0118

07-Oct-21

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA **Mailing Address:** P.O. Box 26221 • Birmingham, AL 35260 • USA

Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • **Fax:** 205.945.8768

Email: info@southernbiotech.com • **Website:** www.southernbiotech.com