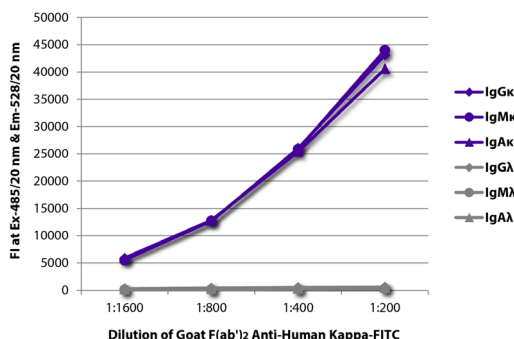




Goat F(ab')₂ Anti-Human Kappa

Cat. No.	Format	Size
2062-01	Purified (UNLB)	0.5 mg
2062-02	Fluorescein (FITC)	0.5 mg
2062-04	Alkaline Phosphatase (AP)	1.0 mL
2062-05	Horseradish Peroxidase (HRP)	1.0 mL
2062-08	Biotin (BIOT)	0.5 mg
2062-09	R-phycoerythrin (PE)	0.25 mg
2062-30	Alexa Fluor [®] 488 (AF488)	0.5 mg
2062-31	Alexa Fluor [®] 647 (AF647)	0.5 mg
2062-32	Alexa Fluor [®] 555 (AF555)	0.5 mg



FLISA plate was coated with purified human IgGκ, IgMκ, IgAκ, IgGλ, IgMλ, and IgAλ. Immunoglobulins were detected with serially diluted Goat F(ab')₂ Anti-Human Kappa-FITC (SB Cat. No. 2062-02).

Description

Specificity	Reacts with human κ light chains
Source	Pepsin digest of Goat Anti-Human Kappa (SB Cat. No. 2060)
Cross Adsorption	Human λ light chains; may react with κ light chains from other species

Applications

Quality tested applications include –

ELISA¹
 FLISA
 FC⁴⁻⁸

Other referenced applications include –

ICC²
 WB³
 SPR⁹
 Stim¹⁰⁻¹⁴

Working Dilutions

ELISA	AP conjugate	1:1,000 – 1:4,000
	HRP conjugate	1:4,000 – 1:8,000
	BIOT conjugate	1:5,000 – 1:20,000

FLISA	FITC and AF488 conjugates	1:200 – 1:400
	AF555 conjugate	1:100 – 1:400
	PE and AF647 conjugates	≤ 1 μg/mL

Flow Cytometry	FITC, BIOT, and AF488 conjugates	≤ 1 μg/10 ⁶ cells
	AF647 conjugate	≤ 0.1 μg/10 ⁶ cells
	PE conjugate	≤ 0.05 μg/10 ⁶ cells
	For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	

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 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 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) conjugate is supplied as 0.25 mg in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The Alexa Fluor® 488 (AF488), Alexa Fluor® 555 (AF555), and Alexa Fluor® 647 (AF647) conjugates are supplied as 0.5 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. Li P, Haque A, Blum JS. Role of disulfide bonds in regulating antigen processing and epitope selection. *J Immunol.* 2002;169:2444-50. (ELISA)
2. Beekman JM, van der Poel CE, van der Linden JA, van den Berg DL, van den Berghe PV, van de Winkel JG, et al. Filamin A stabilizes FcγRI surface expression and prevents its lysosomal routing. *J Immunol.* 2008;180:3938-45. (ICC)
3. Macmillan H, Strohman MJ, Ayyangar S, Jiang W, Rajasekaran N, Spura A, et al. The MHC class II cofactor HLA-DM interacts with Ig in B cells. *J Immunol.* 2014;193:2641-50. (WB)
4. van der Pol W, Huizinga TW, Vidarsson G, van der Linden MW, Jansen MD, Keijsers V, et al. Relevance of Fcγ receptor and interleukin-10 polymorphisms for meningococcal disease. *J Infect Dis.* 2001;184:1548-55. (FC)
5. Koch M, Niemeyer G, Patel I, Light S, Nashan B. Pharmacokinetics, pharmacodynamics, and immunodynamics of daclizumab in a two-dose regimen in liver transplantation. *Transplantation.* 2002;73:1640-6. (FC)
6. Beekman JM, Bakema JE, van der Linden J, Tops B, Hinten M, van Vugt M, et al. Modulation of FcγRI (CD64) ligand binding by blocking peptides of periplakin. *J Biol Chem.* 2004;279:33875-81. (FC)
7. Beekman JM, Bakema JE, van de Winkel JG, Leusen JH. Direct interaction between FcγRI (CD64) and periplakin controls receptor endocytosis and ligand binding capacity. *Proc Natl Acad Sci USA.* 2004;101:10392-7. (FC)
8. Boross P, Lohse S, Nederend M, Jansen JH, van Tetering G, Dechant M, et al. IgA EGFR antibodies mediate tumour killing in vivo. *EMBO Mol Med.* 2013;5:1213-26. (FC)
9. Yang Z, Ramsey J, Hamza T, Zhang Y, Li S, Yfantis HG, et al. Mechanisms of protection against *Clostridium difficile* infection by the monoclonal antitoxin antibodies actoxumab and beztozumab. *Infect Immun.* 2015;83:822-31. (Surface Plasmon Resonance)
10. Su K, Li X, Edberg JC, Wu J, Ferguson P, Kimberly RP. A promoter haplotype of the immunoreceptor tyrosine-based inhibitory motif-bearing FcγRIIb alters receptor expression and associates with autoimmunity. II. Differential binding of GATA4 and Yin-Yang1 transcription factors and correlated receptor expression and function. *J Immunol.* 2004;172:7192-9. (Stim)
11. Beekman JM, van der Linden JA, van de Winkel JG, Leusen JH. FcγRI (CD64) resides constitutively in lipid rafts. *Immunol Lett.* 2008;116:149-55. (Stim)
12. Arechiga AF, Habib T, He Y, Zhang X, Zhang Z, Funk A, et al. Cutting edge: the PTPN22 allelic variant associated with autoimmunity impairs B cell signaling. *J Immunol.* 2009;182:3343-7. (Stim)
13. Thiel J, Kimmig L, Salzer U, Grudzien M, Lebrecht D, Hagena T, et al. Genetic CD21 deficiency is associated with hypogammaglobulinemia. *J Allergy Clin Immunol.* 2012;129:801-10. (Stim)
14. Habib T, Funk A, Rieck M, Brahmandam A, Dai X, Panigrahi AK, et al. Altered B cell homeostasis is associated with type I diabetes and carriers of the PTPN22 allelic variant. *J Immunol.* 2012;188:487-96. (Stim)

Alexa Fluor® 488, 647, and 555 are provided under an Intellectual property license from Life Technologies Corporation. 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 Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.

TB2062
25-Aug-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