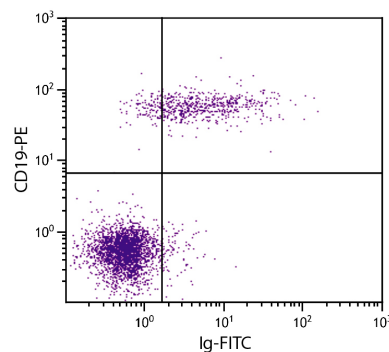




## Goat F(ab')<sub>2</sub> Anti-Human Ig

Cat. No.	Format	Size
2012-01	Purified (UNLB)	0.5 mg
2012-02	Fluorescein (FITC)	0.5 mg
2012-08	Biotin (BIOT)	0.5 mg
2012-09	R-phycoerythrin (PE)	0.25 mg
2012-30	Alexa Fluor <sup>®</sup> 488 (AF488)	0.5 mg
2012-32	Alexa Fluor <sup>®</sup> 555 (AF555)	0.5 mg



Human peripheral blood lymphocytes were stained with Goat F(ab')<sub>2</sub> Anti-Human Ig-FITC (SB Cat. 2012-02) and Mouse Anti-Human CD19-PE (SB Cat. No. 9340-09).

### Description

<b>Specificity</b>	Reacts with the heavy and light chains of human IgG, IgM, and IgA
<b>Source</b>	Pepsin digest of Goat Anti-Human Ig (SB Cat. No. 2010)
<b>Cross Adsorption</b>	None; may react with immunoglobulins from other species

### Applications

Quality tested applications include –

ELISA<sup>1,2,5</sup>  
 FLISA  
 FC<sup>7,8</sup>

Other referenced applications include –

ELISPOT<sup>3,4</sup>  
 IHC-FS<sup>6</sup>  
 Stim<sup>9,10</sup>

### Working Dilutions

<b>ELISA</b>	BIOT conjugate	1:5,000 – 1:20,000
<b>FLISA</b>	FITC, AF488, and AF555 conjugates	1:100 – 1:400
	PE conjugate	≤ 1 µg/mL
<b>Flow Cytometry</b>	FITC, BIOT, and AF488 conjugates	≤ 1 µg/10 <sup>6</sup> cells
	PE conjugate	≤ 0.1 µg/10 <sup>6</sup> cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL		
<b>Other Applications</b>	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

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- 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), Alexa Fluor® 488 (AF488), and Alexa Fluor® 555 (AF555) conjugates are supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.25 mg in 1.0 mL of PBS/NaN<sub>3</sub> and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

## Warning

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

## References

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1. Kozlowski PA, Chen D, Eldridge JH, Jackson S. Contrasting IgA and IgG neutralization capacities and responses to HIV type 1 gp120 V3 loop in HIV-infected individuals. *AIDS Res Hum Retroviruses*. 1994;10:813-22. (ELISA)
2. Sydor JR, Normant E, Pien CS, Porter JR, Ge J, Grenier L, et al. Development of 17-allylamino-17-demethoxygeldanamycin hydroquinone hydrochloride (IPI-504), an anti-cancer agent directed against Hsp90. *Proc Natl Acad Sci USA*. 2006;103:17408-13. (ELISA)
3. Sira MM, Yoshida T, Takeuchi M, Kashiwayama Y, Futatani T, Kanegane H, et al. A novel immunoregulatory protein in human colostrum, syntenin-1, for promoting the development of IgA-producing cells from cord blood B cells. *Int Immunol*. 2009;21:1013-23. (ELISPOT)
4. Rehnberg M, Amu S, Tarkowski A, Bokarewa MI, Brisslert M. Short- and long-term effects of anti-CD20 treatment on B cell ontogeny in bone marrow of patients with rheumatoid arthritis. *Arthritis Res Ther*. 2009;11(4):R123. (ELISPOT)
5. White CA, Pone EJ, Lam T, Tat C, Hayama KL, Li G, et al. Histone deacetylase inhibitors upregulate B cell microRNAs that silence AID and Blimp-1 expression for epigenetic modulation of antibody and autoantibody responses. *J Immunol*. 2014;193:5933-50. (ELISA)
6. Xu W, He B, Chiu A, Chadburn A, Shan M, Buldys M, et al. Epithelial cells trigger frontline immunoglobulin class switching through a pathway regulated by the inhibitor SLPI. *Nat Immunol*. 2007;8:294-303. (IHC-FS)
7. Heile JM, Fong Y, Rosa D, Berger K, Saletti G, Campagnoli S, et al. Evaluation of hepatitis C virus glycoprotein E2 for vaccine design: an endoplasmic reticulum-retained recombinant protein is superior to secreted recombinant protein and DNA-based vaccine candidates. *J Virol*. 2000;74:6885-92. (FC)
8. Bao G, Li Y, Ma Q, He X, Xing J, Yang X, et al. Isolating human antibody against human hepatocellular carcinoma by guided-selection. *Cancer Biol Ther*. 2005;4:1374-80. (FC)
9. Liubchenko GA, Appleberry HC, Striebich CC, Franklin KE, Derber LA, Holers VM, et al. Rheumatoid arthritis is associated with signaling alterations in naturally occurring autoreactive B-lymphocytes. *J Autoimmun*. 2013;40:111-21. (Stim)
10. Lyubchenko T, Zerbe GO. B cell receptor signaling-based index as a biomarker for the loss of peripheral immune tolerance in autoreactive B cells in rheumatoid arthritis. *PLoS One*. 2014;9(7):e102128. (Stim)

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