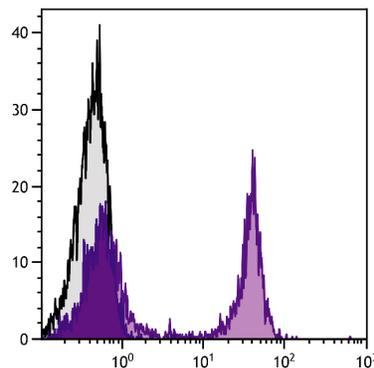




## Mouse Anti-Biotin

Cat. No.	Format	Size
6404-01	Purified (UNLB)	0.5 mg
6404-02	Fluorescein (FITC)	0.5 mg
6404-04	Alkaline Phosphatase (AP)	1.0 mL
6404-05	Horseradish Peroxidase (HRP)	1.0 mL
6404-09	R-phycoerythrin (PE)	0.1 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse CD45R-BIOT (SB Cat. No. 1665-08) followed by Mouse Anti-Biotin-PE (SB Cat. No. 6404-09).

### Overview

<b>Clone</b>	SB58c
<b>Isotype</b>	Mouse (BALB/c) IgG <sub>1κ</sub>
<b>Immunogen</b>	Biotin-KLH
<b>Specificity</b>	Biotin

### Description

Anti-Biotin may be used for indirect immunostaining when working with a biotinylated primary antibody. As an effective alternative to avidin, Anti-Biotin amplifies signal and reduces background that can be caused by avidin and its derivatives.

### Applications

ELISA – Quality tested  
 FLISA – Quality tested  
 FC – Quality tested  
 WB – Reported in literature <sup>1</sup>  
 PLA – Reported in literature <sup>2</sup>

### Working Dilutions

<b>Flow Cytometry</b>	FITC conjugate	≤ 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>ELISA</b>	Purified (UNLB) antibody	≤ 1 μg/mL
	HRP conjugate	1:4,000 – 1:8,000
	AP conjugate	1:1,000 – 1:2,000
<b>FLISA</b>	FITC conjugate	1:200 – 1:400
	PE conjugate	≤ 1 μg/mL
<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) conjugate is supplied as 0.5 mg in 1.0 mL PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The alkaline phosphatase (AP) conjugate is supplied as 1.0 mL of stock solution in 50 mM Tris/1 mM MgCl<sub>2</sub>/50% glycerol, pH 8.0, containing NaN<sub>3</sub> as preservative. Store at 2-8°C or long-term at -20°C.
- The horseradish peroxidase (HRP) conjugate is supplied as 1.0 mL of stock solution in 50% glycerol/50% PBS, pH 7.4. No preservative added. Store at 2-8°C or long-term at -20°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 0.2 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. Späte A, Scharf VF, Häfner J, Niederwieser A, Mayer TU, Wittmann V. Expanding the scope of cyclopropene reporters for the detection of metabolically engineered glycoproteins by Diels-Alder reactions. *Beilstein J Org Chem.* 2014;10:2235-42. (WB)
2. Workman ER, Haddick PC, Bush K, Dilly GA, Niere F, Zemelman BV, et al. Rapid antidepressants stimulate the decoupling of GABA<sub>B</sub> receptors from GIRK/Kir3 channels through increased protein stability of 14-3-3 $\eta$ . *Mol Psychiatry.* 2015;20:298-310. (Proximity ligation assay)
3. Fahie MA, Yang B, Mullis M, Holden MA, Chen M. Selective detection of protein homologues in serum using an OmpG nanopore. *Anal Chem.* 2015;87:11143-9.