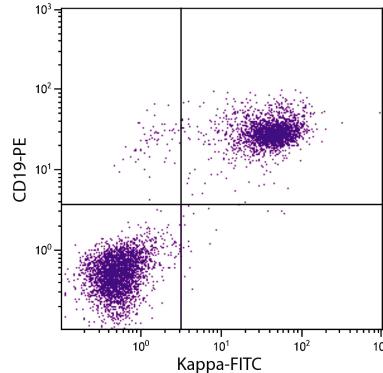


Rat Anti-Mouse Kappa

Cat. No.	Format	Size
1170-01	Purified (UNLB)	0.5 mg
1170-02	Fluorescein (FITC)	0.5 mg
1170-02S	Fluorescein (FITC)	0.1 mg
1170-04	Alkaline Phosphatase (AP)	1.0 mL
1170-05	Horseradish Peroxidase (HRP)	1.0 mL
1170-08	Biotin (BIOT)	0.5 mg
1170-09	R-phycoerythrin (PE)	0.1 mg
1170-09L	R-phycoerythrin (PE)	0.2 mg



BALB/c mouse splenocytes were stained with Rat Anti-Mouse Kappa-BIOT (SB Cat. No. 1170-08) and Rat Anti-Mouse CD19-PE (SB Cat. No. 1575-09) followed by Streptavidin-FITC (SB Cat. No. 7100-02).

Overview

Clone	187.1
Isotype	Rat (Sprague-Dawley) IgG ₁ κ
Immunogen	MPC-11 immunoglobulin
Specificity	Mouse κ

Applications

- FC – Quality tested ⁴⁻¹⁵
- ELISA – Quality tested ^{2,3}
- FLISA – Quality tested
- IHC-FS – Reported in literature ¹⁶
- WB-NR – Reported in literature ^{4,17,18}
- IP – Reported in literature ¹⁹
- Purification – Reported in literature ^{20,21}
- Costim – Reported in literature ²²

Working Dilutions

Flow Cytometry	FITC and BIOT conjugates PE conjugate For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL	≤ 1 μg/10 ⁶ cells ≤ 0.2 μg/10 ⁶ cells 1:1,000 – 1:2,000
ELISA	AP conjugate HRP conjugate BIOT conjugate	1:4,000 – 1:8,000 1:5,000 – 1:10,000
FLISA	FITC conjugate PE conjugate	1:200 – 1:400 ≤ 1 μg/mL
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 or 0.1 mg in 0.2 mL of PBS/NaN₃. 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 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 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 biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycocerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ 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

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

References

- Yelton DE, Desaymard C, Scharff MD. Use of monoclonal anti-mouse immunoglobulin to detect mouse antibodies. *Hybridoma.* 1981;1:5-11. (Immunogen)
- Förster M, Raposo B, Ekman D, Kłaczkowska D, Popovic M, Nandakumar KS, et al. Genetic control of antibody production during collagen-induced arthritis development in heterogeneous stock mice. *Arthritis Rheum.* 2012;64:3594-603. (ELISA)
- Raposo B, Dobritzsch D, Ge C, Ekman D, Xu B, Lindh I, et al. Epitope-specific antibody response is controlled by immunoglobulin V_H polymorphisms. *J Exp Med.* 2014;211:405-11. (ELISA)
- Nakamura T, Kubagawa H, Cooper MD. Heterogeneity of immunoglobulin-associated molecules on human B cells identified by monoclonal antibodies. *Proc Natl Acad Sci USA.* 1992;89:8522-6. (FC, WB)
- Bertocci B, De Smet A, Berek C, Weill J, Reynaud C. Immunoglobulin κ light chain gene rearrangement is impaired in mice deficient for DNA polymerase mu. *Immunity.* 2003;19:203-11. (FC)
- Heltemes-Harris L, Liu X, Manser T. Progressive surface B cell antigen receptor down-regulation accompanies efficient development of antinuclear antigen B cells to mature, follicular phenotype. *J Immunol.* 2004;172:823-33. (FC)
- Wang Y, Carter RH. CD19 regulates B cell maturation, proliferation, and positive selection in the FDC zone of murine splenic germinal centers. *Immunity.* 2005;22:749-61. (FC)
- Vettermann C, Lutz J, Selg M, Bösl M, Jäck H. Genomic suppression of murine B29/Ig-β promoter-driven transgenes. *Eur J Immunol.* 2006;36:3324-33. (FC)
- Lindsley RC, Thomas M, Srivastava B, Allman D. Generation of peripheral B cells occurs via two spatially and temporally distinct pathways. *Blood.* 2007;109:2521-8. (FC)
- Bai L, Chen Y, He Y, Dai X, Lin X, Wen R, et al. Phospholipase Cy2 contributes to light-chain gene activation and receptor editing. *Mol Cell Biol.* 2007;27:5957-67. (FC)
- Liu X, Shen S, Manser T. Influence of B cell antigen receptor expression level on pathways of B cell tolerance induction. *J Immunol.* 2009;182:398-407. (FC)
- Gross AJ, Lyandres JR, Panigrahi AK, Prak ET, DeFranco AL. Developmental acquisition of the Lyn-CD22-SHP-1 inhibitory pathway promotes B cell tolerance. *J Immunol.* 2009;182:5382-92. (FC)
- Stumhofer JS, Tait ED, Quinn WJ 3rd, Hosken N, Spudy B, Goenka R, et al. A role for IL-27p28 as an antagonist of gp130-mediated signaling. *Nat Immunol.* 2010;11:1119-26. (FC)
- Corrah TW, Goonetilleke N, Kopciński J, Deeks SG, Cohen MS, Borrow P, et al. Reappraisal of the relationship between the HIV-1-protective single-nucleotide polymorphism 35 kilobases upstream of the HLA-C gene and surface HLA-C expression. *J Virol.* 2011;85:3367-74. (FC)
- Knoll M, Yanagisawa Y, Simmons S, Engels N, Wienands J, Melchers F, et al. The non-Ig parts of the VpreB and λ5 proteins of the surrogate light chain play opposite roles in the surface representation of the precursor B cell receptor. *J Immunol.* 2012;188:6010-7. (FC)
- Nandakumar KS, Collin M, Olsén A, Nimmerjahn F, Blom AM, Ravetch JV, et al. Endoglycosidase treatment abrogates IgG arthritogenicity: importance of IgG glycosylation in arthritis. *Eur J Immunol.* 2007;37:2973-82. (IHC-FS)
- Naumann I, Kappler R, von Schweinitz D, Debatin K, Fulda S. Bortezomib primes neuroblastoma cells for TRAIL-induced apoptosis by linking the death receptor to the mitochondrial pathway. *Clin Cancer Res.* 2011;17:3204-18. (WB-NR)
- Unterkircher T, Cristofanon S, Vellanki SH, Nonnenmacher L, Karpel-Massler G, Wirtz CR, et al. Bortezomib primes glioblastoma, including glioblastoma stem cells, for TRAIL by increasing tBid stability and mitochondrial apoptosis. *Clin Cancer Res.* 2011;17:4019-30. (WB-NR)
- Campbell KS, Cambier JC. B lymphocyte antigen receptors (mlg) are non-covalently associated with a disulfide linked, inducibly phosphorylated glycoprotein complex. *EMBO J.* 1990;9:441-8. (IP)
- Vainio O, Dunon D, Aïssi F, Dangy J, McNagny KM, Imhof BA. HEMCAM, an adhesion molecule expressed by c-kit⁺ hemopoietic progenitors. *J Cell Biol.* 1996;135:1655-68. (Purification)
- Tunheim G, Schjetne KW, Fredriksen AB, Sandlie I, Bogen B. Human CD14 is an efficient target for recombinant immunoglobulin vaccine constructs that deliver T cell epitopes. *J Leukoc Biol.* 2005;77:303-10. (Purification)
- Kisielow M, Kisielow J, Capoferri-Sollami G, Karjalainen K. Expression of lymphocyte activation gene 3 (LAG-3) on B cells is induced by T cells. *Eur J Immunol.* 2005;35:2081-8. (Costim)

TB1170
28-Mar-16