Product Datasheet

Mouse IgG1 Kappa Isotype control Antibody (orb343761)

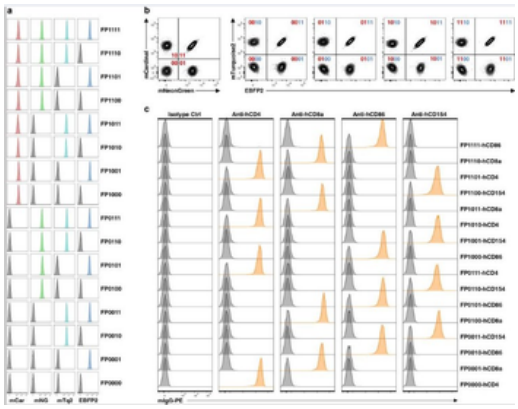
Description	Mouse IgG1 Kappa Isotype control Antibody
Conjugation	Unconjugated
Tested Applications	FC, SDS-PAGE
Preservatives	0.01% (w/v) Sodium Azide
Form/Appearance	Liquid (sterile filtered)
Concentration	1.0 mg/mL
Storage	Store vial at 4° C prior to opening. This product is stable 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage mix with an equal volume of glycerol, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing.
Note	For research use only
Application notes	Mouse IgG1 kappa isotype control has been tested in SDS-Page and can be utilized as a control or standard reagent in Flow Cytometry, Western Blotting, and ELISA experiments where determination of sample isotype is important.
Isotype	IgG1
Clone Number	MG1K
Purity	Mouse Isotype control has been prepared from concentrated cell culture supernatant by immunoaffinity chromatography using protein A. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Mouse IgG and anti-Mouse serum. Isotyping assay resulted non-reactive with antisera to mouse IgG2a, IgG2b, IgG3, IgA, IgM. Light chain composition has been confirmed by SDS-PAGE.
Source	Mouse

Biorbyt Ltd.
7 Signet Court, Swann's Road,
Cambridge, CB5 8LA, United Kingdom
Email: info@biorbyt.com, support@biorbyt.com
Phone: +44 (0) 1223 859-353 | Fax: +1 (415) 651-8558

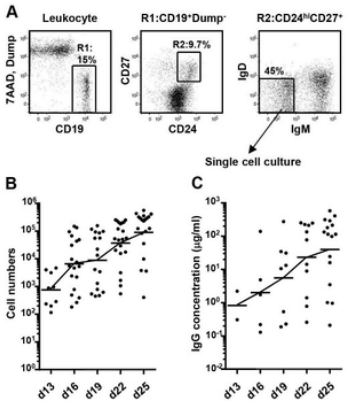
Biorbyt LLC.
68 TW Alexander Drive,
Durham, NC, 27713, United States
Email: info@biorbyt.com, support@biorbyt.com
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

Dilution Range FC: 1:1000-1:5000

Expiration Date 12 months from date of receipt.



A multiplex immunoassay based on FP-barcoded reporter cell lines. a A basic panel of FP-barcoded reporter cell lines. K530 cells were transduced with different combinations of 4 FPs to produce 16 uniquely FP-barcoded reporter cell lines. The absence/presence of fluorescence from FPs EBFP2, mTurquoise2 (mTq2), mNeonGreen (mNG), and mCardinal (mCar) are designated as four digits of binary barcodes as shown on the right of histograms for each individual cell line. b Demultiplexing of pooled FP-barcoded reporter cell lines by flow cytometry. c The 16 barcoded reporter cell lines were transduced to express human CD4, CD8a, CD86, and CD154 molecules in a shifted pattern relative to FP expression. These cells were pooled and stained with corresponding mouse monoclonal antibodies (as indicated on the top of each histogram) followed by a PE-conjugated anti-mouse IgG antibody. Signals from individual reporter cell lines were demultiplexed as shown in b and the binding by corresponding antibodies were plotted as half-offset histograms. In all cases, the detected expression patterns were consistent with antigen expression by barcoded cells before multiplexing as shown on the right of histograms for each individual cell line. Isotype Ctrl, mouse IgG1, κ-isotype control antibody (p/n orb343761).



Kinetics of B cell growth and IgG concentrations in single-cell cultures of human B mem cells. Single B cells were sorted from PBMCs and cultured in the presence of MS40Llo feeder cells with exogenous recombinant human IL-2, IL-4, IL-21, and BAFF. (A) Representative flow diagrams from 4 or more independent experiments showing the gating strategy used to isolate human B mem cells (CD19+CD27+CD24hiIgM−IgD−). (B and C) Kinetics of B cell numbers (B) and IgG concentrations in culture supernatants (C) during single-cell cultures of switched B mem cells. We analyzed 22 individual cultures from a single experiment for each timepoint; data shown are values for samples that exceeded the background for cell counting and IgG determinations. Mouse IgG1 kappa (p/n orb343761).

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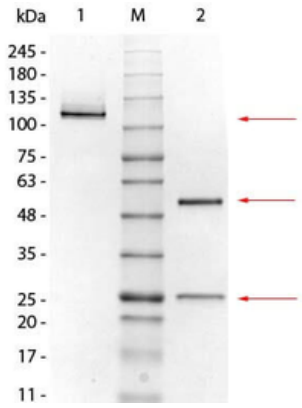

SDS-PAGE of Mouse IgG1 Kappa Isotype Control. Lane 1: Mouse IgG1 Kappa Isotype Control, Non-reduced. M: Opal Pre-stained Ladder. Lane 2: Mouse IgG1 Kappa Isotype Control, Reduced. Load: 1.0 µg per lane. Predicted/Observed: 120 kDa Non-reduced, 55 and 25 Reduced.

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