

# Rat IgG2a kappa Isotype Control (eBR2a), Super Bright 780, eBioscience™

Product Details	
Size	100 µg
Host/Isotype	Rat / IgG2a, kappa
Class	Control
Type	Isotype Control
Clone	eBR2a
Conjugate	Super Bright 780
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2725194

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	Assay-Dependent	-
Control (Ctrl)	Assay-Dependent	-

## Product Specific Information

**Description:** The monoclonal rat IgG2a, kappa is useful as an isotype control immunoglobulin.

**Applications Reported:** This rat IgG2a isotype control has been reported for use in immunocytochemistry, immunohistochemistry, and flow cytometric analysis.

**Applications Tested:** This rat IgG2a isotype control has been tested by flow cytometric analysis of mouse splenocytes. This can be used at the same concentration as the experimental antibody.

Super Bright 780 can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

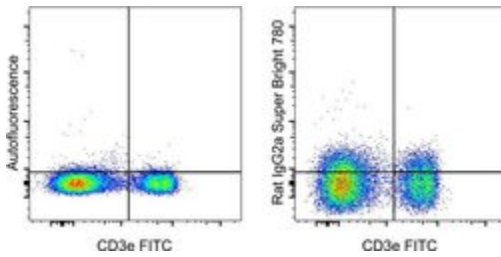
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 780 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For Rat IgG2a kappa Isotype Control (eBR2a), Super Bright 780, eBioscience™



### Rat IgG2a kappa Isotype Control (78-4321-82)

C57/B6 splenocytes were stained with CD3e Monoclonal Antibody, FITC (Product # 11-0031-82) (left) and 0.25 $\mu$ g of Rat IgG2a kappa Isotype Control, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

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