Mouse IgG2a kappa Isotype Control (eBM2a), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Published Species	Human
Host/Isotope	Mouse / IgG2a, kappa
Class	Control
Type	Isotype Control
Clone	eBM2a
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_470164

Applications	Tested Dilution	Publications
Control (Ctrl)	Assay-Dependent	1 Publication
Flow Cytometry (Flow)	Assay-Dependent	3 Publications
Functional Assay (FN)	Assay-Dependent	1 Publication
Inhibition Assays (IA)	-	1 Publication
Neutralization (Neu)	-	1 Publication

Product Specific Information

Description: This is a monoclonal mouse IgG2a, kappa antibody. It is used as an isotype control for mouse IgG2a antibodies.

Applications Reported: This mouse IgG2a isotype control has been reported for use in bioassays and cell surface and intracellular flow cytometric analysis.

Applications Tested: This mouse IgG2a isotype control has been tested by flow cytometric analysis of normal human peripheral blood cells. It should be used at the same concentration as the experimental antibody. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

7 References

Control (1)

Oncoimmunology

Targeting B-cell malignancies through human B-cell receptor specific CD4^{+} T cells.

"16-4724 was used as a control in experiments to identify shared BCR-derived CD4+T-cell epitopes with promiscuous HLA DRB1 binding affinity, suggesting a broad strategy to target clonal B cell tumours."

Authors: Weng J,Baio FE,Moriarty KE,Torikai H,Wang H,Liu Z,Maiti SN,Gwak D,Popescu MS,Cha SC,Cooper LJ, Neelapu SS,Kwak LW

Species
Not Applicable

Dilution
Not Cited

Year
2020

Flow Cytometry (3)

Journal of immunology (Baltimore, Md. : 1950)

Low Constitutive Cell Surface Expression of HLA-B Is Caused by a Posttranslational Mechanism Involving Glu180 and Arg239.

"16-4724 was used in Flow cytometry/Cell sorting to study HLA cell surface expression in response to changing terminal amino acids in the a2 and a3 domains."

Authors: Dellgren C,Ekwelum VA,Ormhøj M,Pallesen N,Knudsen J,Nehlin JO,Barington T

Species
Not Applicable

Dilution
Not Cited

Year
2016

PloS one

Cell surface expression level variation between two common Human Leukocyte Antigen alleles, HLA-A2 and HLA-B8, is dependent on the structure of the C terminal part of the alpha 2 and the alpha 3 domains.

"16-4724 was used in Flow cytometry/Cell sorting to suggest that the differential cell surface expression of two common HLA-A and-B alleles is regulated by a post-translational mechanism."

Authors: Dellgren C,Nehlin JO,Barington T

Species
Human

Dilution
Not Cited

Year
2016

View more Flow references on thermofisher.com

Inhibition Assays (1)

Developmental cell

Adaptive Immune Regulation of Mammary Postnatal Organogenesis.

"16-4724 was used in Inhibition experiments to show that adaptive immune responses participate in the normal postnatal development of a non-lymphoid epithelial tissue."

Authors: Plaks V,Boldajipour B,Linnemann JR,Nguyen NH,Kersten K,Wolf Y,Casbon AJ,Kong N,van den Bijgaart RJ, Sheppard D,Melton AC,Krummel MF,Werb Z

Species
Not Applicable

Dilution
Not Cited

Year
2015

More applications with references on thermofisher.com

FN (1) **Neu (1)**