

# Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Published Species	Human, Mouse
Host/Isotope	Mouse / IgG1, kappa
Class	Control
Type	Isotype Control
Clone	P3.6.2.8.1
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_470161

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	Assay-Dependent	10 Publications
In vitro Assay (IV)	-		1 Publication
Functional Assay (FN)	✓	Assay-Dependent	8 Publications
Neutralization (Neu)	-		5 Publications
ELISA (ELISA)	-		2 Publications
Control (Ctrl)	✓	Assay-Dependent	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1:100	1 Publication

## Product Specific Information

**Description:** The monoclonal mouse IgG1 K immunoglobulin is useful as an isotype control.

**Applications Reported:** This mouse IgG1 isotype control has been reported for use in surface and intracellular flow cytometric analysis, immunohistochemical staining, immunoprecipitation and immunoblotting (WB).

**Applications Tested:** This Mouse IgG1 isotype control has been tested by flow cytometric analysis of human peripheral leukocytes and can be used at the same concentration as the experimental antibody.

**Endotoxin:** Less than 0.001 ng/ug antibody as determined by the LAL assay.

**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.

## 28 References

### Flow Cytometry (10)

#### PLoS neglected tropical diseases

#### Similarities and differences between helminth parasites and cancer cell lines in shaping human monocytes: Insights into parallel mechanisms of immune evasion.

"16-4714 was used in Flow cytometry/Cell sorting to suggest that despite the fact that helminth parasites and cancer cell lines are extraordinarily disparate, they share the ability to alter the phenotype of human monocytes."

Authors: Narasimhan PB,Akabas L,Tariq S,Huda N,Bennuru S,Sabzevari H,Hofmeister R,Nutman TB,Tolouei Semnani R

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

#### American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons

#### Selective Sparing of Human Tregs by Pharmacologic Inhibitors of the Phosphatidylinositol 3-Kinase and MEK Pathways.

"16-4714 was used as a Control in experiments to investigate whether pharmacologic inhibition of PI3K, and possibly MEK, would preferentially affect CD4(+) and CD8(+) lymphocytes compared with Tregs."

Authors: Zwang NA,Zhang R,Germana S,Fan MY,Hastings WD,Cao A,Turka LA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

[View more Flow references on thermofisher.com](#)

### In vitro Assay (1)

#### Scientific reports

#### T cells display mitochondria hyperpolarization in human type 1 diabetes.

"16-4714 was used in in vitro experiments to study how intrinsic mitochondrial dysfunction observed in type 1 diabetes alters mitochondrial ATP and IFN production."

Authors: Chen J,Chernatynskaya AV,Li JW,Kimbrell MR,Cassidy RJ,Perry DJ,Muir AB,Atkinson MA,Brusko TM, Mathews CE

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

### Functional Assay (8)

#### Molecular medicine reports

#### High mobility group box 1 induces calcification of aortic valve interstitial cells via toll-like receptor 4.

"16-4714 was used as a Control in experiments to investigate the mechanisms underlying chronic inflammation and the calcification of aortic valve interstitial cells in calcific aortic valve disease."

Authors: Shen W,Zhou J,Wang C,Xu G,Wu Y,Hu Z

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

[View more FN references on thermofisher.com](#)

### More applications with references on thermofisher.com

Neu (5)

ELISA (2)

Ctrl (1)

IHC (P) (1)

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