Rat IgG2a kappa Isotype Control (eBR2a), Functional Grade, eBioscience™

Product Details	
Size	100 µg
Host/Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Isotype Control
Clone	eBR2a
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_470156

Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	0 Publication
Flow Cytometry (Flow)	Assay-Dependent	0 Publication
ELISA (ELISA)	-	0 Publication
Neutralization (Neu)	-	0 Publication
Functional Assay (Functional)	Assay-Dependent	0 Publication
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 flow cytometric analysis and ELISA.

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

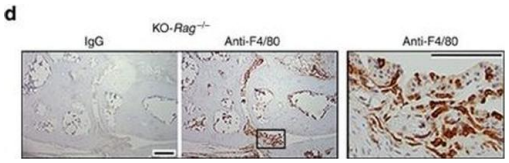
Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

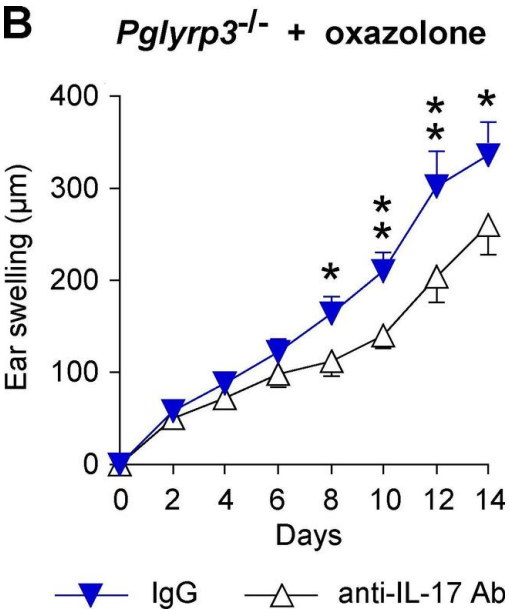
Purity: Greater than 90%, as determined by SDS-PAGE.

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

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



Rat IgG2a kappa Isotype Control (16-4321-82) in IHC (P)
Reduced arthritis progression in KO-Rag/ mice.The CD11c-Flip-KO mice were crossed with Rag/ mice to generate the KO-Rag/ line. (a) The spontaneous development of arthritis in KO-Rag/mice was compared with the littermate KO-Rag+/ mice (n=7-10 KO-Rag+/ mice and 7-16 KO-Rag/ at the observed time points). No arthritis was observed in the Rag/or Rag+/ mice. (b) Representative (of four to five per group) H&E histology of ankles of KO-Rag/ mice and KO-Rag+/ mice. The arrowheads identify bone erosion and pannus formation, and the brackets indicate inflammation. The boxed areas in upper panels (scale bar, 500 µm) are enlarged in the lower panels (scale bar, 200 µm). (c) The analysis of inflammation and bone erosion scores for ankles harvested from Rag/, KO-Rag/ and KO-Rag+/ mice (n=4-5 mice for each group) harvested at the termination of the experiment (21-22 weeks). (d) Representative (of n=5) immunohistochemistry of joints from CD11c-Flip-KO mice for F4/80+ macrophages (scale bar, 200 µm). The boxed area in F4/80 staining is enlarged in the right panel (scale bar, 100 µm). (e) At the time of killing, spleens examined for DCs, macrophages and granulocytes (n=4-5 per group). The values presented are mean ±1 s.e. (*P<0. 05, **P<0.01 and ***P<0.001;… Image collected and cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/25963626), licensed under a CC BY license.



Rat IgG2a kappa Isotype Control (16-4321-82) in Neu
IL-17 is required for enhanced response to oxazolone in Pglyrp3/ mice.(A) The level of IL-17-induced chemokine, CXCL-1, is higher in the ears of Pglyrp3/ mice than WT mice after sensitization and application of oxazolone for 20 days. (B) Ear swelling in Pglyrp3/ mice sensitized and treated 7 times with oxazolone every other day and also treated with neutralizing anti-IL-17 mAbs is lower than in Pglyrp3/mice similarly treated with oxazolone and isotype control IgG. Means ± SEM; N = 6 mice/group; significance of differences between Pglyrp3/ and WT mice (A) or IgG control and anti-IL-17 mAbs-treated mice (B): *, P<0.05; **, P<0. 005. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0024961), licensed under a CC BY license.

45 References

Intestinal lymphatic vasculature is functionally adapted to different drainage regions and is altered by helminth infection. J Exp Med (2025)

Hepatic Arterial Flow-Induced Portal Tract Fibrosis in Portal Hypertension: The Role of VCAM-1 and Osteopontin-Expressing Macrophages bioRxiv (2025)

NKp46 enhances type 1 innate lymphoid cell proliferation and function and anti-acute myeloid leukemia activity. Nat Commun (2025)

Candida tropicalis-derived vitamin B3 exerts protective effects against intestinal inflammation by promoting IL-17A/IL-22-dependent epithelial barrier function. Gut Microbes (2024)

Peripheral opioid tolerance involves skin keratinocytes and platelet-derived growth factor type B signaling bioRxiv (2024)

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