full spectrum cell analysis®
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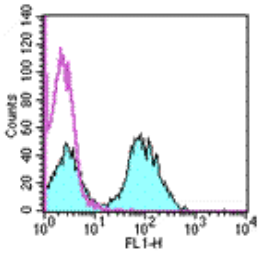
Anti-Mouse/Rat MHC Class II (I-Ek) Purified

Catalog Number: 14-5980
Also Known As:MHC II, IE-k, IEk
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of BALB/c splenocytes with 0.25 ug of Mouse IgG2a kappa Isotype Control Purified (cat. 14-4724) (open histogram) or 0.25 ug of Anti-Mouse/Rat MHC class II (I-Ek) Purified (filled histogram) followed by Anti-Mouse IgG FITC (cat. 11-4011). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse/Rat MHC Class II (I-Ek) Purified
REF **Catalog Number:** 14-5980
Clone: 14-4-4S
Concentration: 0.5 mg/ml
Host/Isotype: Mouse IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The 14-4-4S monoclonal antibody reacts with the mouse and rat major histocompatibility complex class II, I-E subregion-encoded glycoprotein in mice strains of H-2^k, H-2^d, H-2^p and H-2^r. H-2^b, H-2^f and H-2^s haplotypes do not express the I-E antigen. MHC class II is present on B cells, monocytes, macrophages, and dendritic cells. The 14-4-4S mAb has been reported to block antigen presentation in *in vitro* assays. This antibody cross-reacts with rat.

Applications Reported

14-4-4S has been reported for use in flow cytometric analysis, immunoprecipitation, complement-dependent cytotoxity and immunohistochemical staining of frozen sections (Biotinylated 14-4-4S, cat.13-5980, is recommended for IHC).

Applications Tested

The 14-4-4S antibody has been tested by flow cytometric analysis of mouse splenocyte suspension and can be used at less than or equal to 0.5 µg per test. 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.

References

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Spencer JS, Freed JH, Kubo RT. Expression and function of mixed isotype MHC class II molecules in normal mice. J Immunol. 1993 Dec 15;151(12):6822-32.
Pruitt SK, Baldwin WM 3rd, Barth RN, Sanfilippo F. The effect of xenoreactive antibody and B cell depletion on hyperacute rejection of guinea pig-to-rat cardiac xenografts. Transplantation. 1993 Dec;56(6):1318-24.
Liu H, Steiner BM, Alder JD, Baertschy DK, Schell RF. Immune T cells sorted by flow cytometry confer protection against infection with Treponema pallidum subsp. pertenue in hamsters. Infect Immun. 1990 Jun;58(6):1685-90.
Maloy WL, Ozato K, Sachs DH, Coligan JE. Evidence for the association of I-A and I-E molecules in d-haplotype mice. Mol Immunol. 1986 Mar;23(3):263-9.

Related Products

11-4011 Anti-Mouse IgG FITC
14-4724 Mouse IgG2a K Isotype Control Purified

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