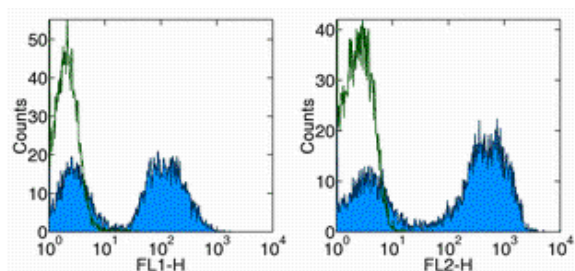


## Anti-Mouse/Rat MHC Class II (I-Ek) PE

**Catalog Number:** 12-5980

**Also Known As:** MHC II, IE-k, IEk

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of mouse splenocytes with Anti-Mouse/Rat MHC Class II (I-Ek) FITC (left), and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Mouse/Rat MHC Class II (I-Ek) PE


**Catalog Number:** 12-5980

**Clone:** 14-4-4S

**Concentration:** 0.2 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. Do not freeze. Light sensitive material.

 **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<sup>k</sup>, H-2<sup>d</sup>, H-2<sup>p</sup> and H-2<sup>r</sup>. H-2<sup>b</sup>, H-2<sup>f</sup> and H-2<sup>s</sup> 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.

### Applications Tested

The 14-4-4S antibody has been tested by flow cytometric analysis of mouse splenocyte suspension. This can be used at less than or equal to 0.06 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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- 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.
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- 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

12-4724 Mouse IgG2a K Isotype Control PE

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