ARG21066
anti-MHC Class II I E kappa antibody [14-4-4S] (FITC)

Package: 100 µg
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [14-4-4S] recognizes MHC Class II I E kappa
Tested Reactivity	Ms, Rat
Tested Application	BL, Cell-Act , FACS, ICC/IF, IHC-Fr
Specificity	Mouse I-Ek/Rat RT1D. The clone 14-4-4S reacts with the I-Ek class II alloantigen on cells from mice of the H-2d, H-2p, and H-2r haplotypes. Cells from mice of the H-2b, H-2f, H-2q, and H-2s haplotypes do not express I-E antigen. The antibody has been reported to cross-react with the rat MHC class II alloantigen RT1D.
Host	Mouse
Clonality	Monoclonal
Clone	14-4-4S
Isotype	IgG2a, kappa
Target Name	MHC Class II I E kappa
Species	Mouse
Immunogen	C3H mouse skin graft and splenocytes
Conjugation	FITC
Alternate Names	AI323765; H-2Ea; MHC-H2-Ea; H2-Ea; I-Ealpha; H-2 class II histocompatibility antigen, E-U alpha chain; Ia3; E-alpha-f; Ia-3

Application Instructions

Application table

Application	Dilution
BL	Assay-dependent
Cell-Act	Assay-dependent
FACS	< 1 µg/10^6 cells
ICC/IF	Assay-dependent
IHC-Fr	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

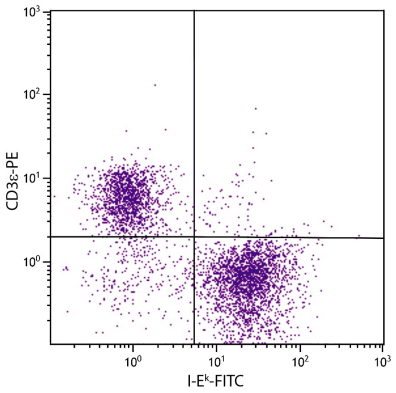
Form	Liquid
Buffer	PBS and 0.1% Sodium azide.
Preservative	0.1% Sodium azide

Concentration	0.5 mg/ml
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 100504404 Mouse Swiss-port # P14439 Mouse
Gene Symbol	H2-Ea-ps
Gene Full Name	histocompatibility 2, class II antigen E alpha, pseudogene
Background	This locus belongs to the class II major histocompatibility complex (MHC) family of genes, which encode immune response (Ia) antigens that function in the T-cell-dependent immune response. This family member has multiple haplotypes, some of which result in the production of an E-alpha subunit that combines with an E-beta subunit to form a functional E complex at the cell surface. Other haplotypes, including that of the reference genome allele, contain mutations and they thus represent polymorphic pseudogenes that do not produce functional products. These mutations include frameshifting indels, nonsense mutations, and deletions of larger regions. The reference genome haplotype contains a deletion at the 5' end of the gene, including the core promoter region and the transcription start site, and therefore no transcripts result from this haplotype. [provided by RefSeq, Aug 2011]
Calculated Mw	29 kDa

Images



ARG21066 anti-MHC Class II I E kappa antibody [14-4-4S] (FITC) FACS image

Flow Cytometry: AKR Mouse splenocytes stained with ARG21066 anti-MHC Class II I E kappa antibody [14-4-4S] (FITC) and ARG20819 anti-CD3e antibody [C363.29B] (PE).