ARG65479
anti-MHC Class II antibody [M5/114] (azide free)

Package: 100 µg
Store at: -20°C

Summary

Product Description	Azide free Rat Monoclonal antibody [M5/114] recognizes MHC Class II
Tested Reactivity	Ms
Tested Application	FACS, FuncSt, IHC-Fr, IHC-P, IP, WB
Specificity	The clone M5/114 reacts with murine MHC class II glycoproteins. It recognizes a shared determinant on I-Ab, I-Ad, I-Aq, and I-Ed, I-Ek alloantigens, but it does not react with I-Af, I-Ak, I-As. This antibody can inhibit I-A-restricted T cell responses of the H-2b, H-2d, H-2q, H-2u but not H-2f, H-2k, H-2s haplotypes.
Host	Rat
Clonality	Monoclonal
Clone	M5/114
Isotype	IgG2b
Target Name	MHC Class II
Species	Mouse
Immunogen	Activated C57BL/6 mouse spleen cells.
Conjugation	Un-conjugated
Alternate Names	HLA-DRB; HLA class II histocompatibility antigen, DRB1-3 chain; SS1; MHC class II antigen DRB1*3; HLA-DR1B; DRw10; Clone P2-beta-3; DRB1

Application Instructions

Application table

Application	Dilution
FACS	2 µg/ml
FuncSt	Assay-dependent
IHC-Fr	5 - 10 µg/ml
IHC-P	5 - 10 µg/ml
IP	Assay-dependent
WB	Assay-dependent

Application Note: Functional Application: Blocking of T cell proliferative responses
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

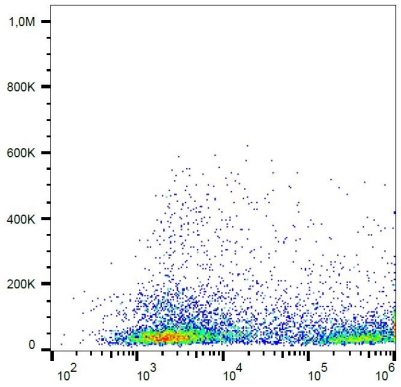
Form	Liquid
Purification	Purification with Protein G.

Purification Note	0.2 µm filter sterilized.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

Gene Symbol	H2-D1
Gene Full Name	histocompatibility 2, D region locus 1
Background	MHC (major histocompatibility complex) class II molecules are transmembrane glycoproteins expressed on the surface of professional antigen-presenting cells, such as macrophages, dendritic cells and B cells. Before their exposition on the cell surface, the MHC class II molecules react with endocytosed exogenous antigens, which are then presented to the T cells. The antigen-binding grove between MHC class II alpha and beta chain is open at both ends and is 15-24 amino acid residues long.
Function	Involved in the presentation of foreign antigens to the immune system. [UniProt]
Research Area	Immune System antibody
Calculated Mw	30 kDa
PTM	Ubiquitinated by MARCH1 and MARCH8 at Lys-254 leading to sorting into the endosome system and down-regulation of MHC class II.

Images



ARG65479 anti-MHC Class II antibody [M5/114] (azide free) FACS image

Flow Cytometry: Murine splenocytes stained with ARG65479 anti-MHC Class II antibody [M5/114] (azide free), followed by APC-conjugated Goat anti-Rat antibody.