

## 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

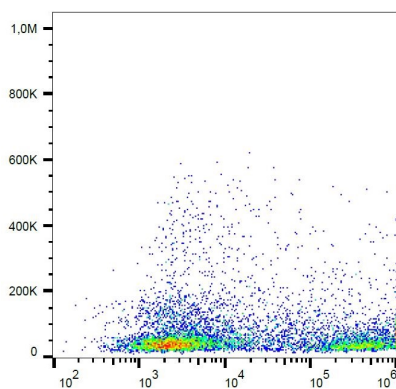
Form	Liquid
Purification	Purification with Protein G.

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 groove 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.