

Datasheet for ABIN1301917
anti-MHC Class II antibody[Go to Product page](#)

1 Image

8 Publications

Overview

Quantity:	0.1 mg
Target:	MHC Class II (MHC2)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This MHC Class II antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Functional Studies (Func)

Product Details

Immunogen:	Activated C57BL/6 mouse spleen cells
Clone:	M5-114
Isotype:	IgG2b
Specificity:	The rat monoclonal antibody M5/114 reacts with murine MHC class II glycoproteins. It recognizes a shared extracellular 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.
Cross-Reactivity (Details):	Mouse
Purification:	Purified by protein-G affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	MHC Class II (MHC2)
Alternative Name:	MHC Class II (MHC2 Products)
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.

Application Details

Application Notes:	Functional application: Blocking of T cell proliferative responses. Flow cytometry: Recommended dilution: 2 µg/mL. Immunohistochemistry: Recommended dilution: 5-10 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Kuwano, Prazma, Yazawa, Watanabe, Ishiura, Kumanogoh, Okochi, Tamaki, Fujimoto, Tedder: "CD83 influences cell-surface MHC class II expression on B cells and other antigen-presenting cells." in: International immunology , Vol. 19, Issue 8, pp. 977-92, (2007) (PubMed).
	Beers, Burich, Kleijmeer, Griffith, Wong, Rudensky: "Cathepsin S controls MHC class II-mediated antigen presentation by epithelial cells in vivo." in: Journal of immunology (Baltimore, Md. : 1950) , Vol. 174, Issue 3, pp. 1205-12, (2005) (PubMed).

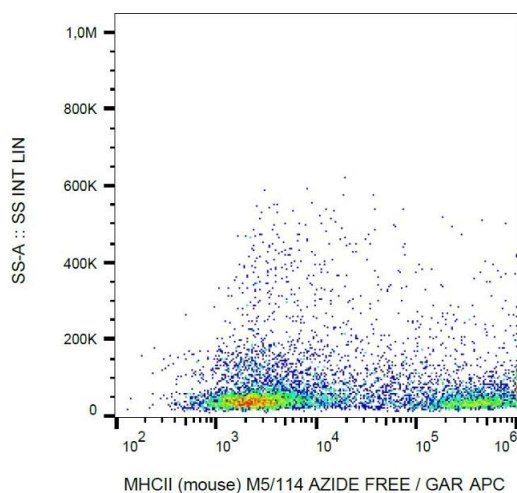
Zang, Kalache, Lin, Schroppel, Murphy: "MHC Class II-mediated apoptosis by a nonpolymorphic MHC Class II peptide proceeds by activation of protein kinase C." in: **Journal of the American Society of Nephrology : JASN**, Vol. 16, Issue 12, pp. 3661-8, (2005) ([PubMed](#)).

Kleijmeer, Ramm, Schuurhuis, Griffith, Rescigno, Ricciardi-Castagnoli, Rudensky, Ossendorp, Melief, Stoorvogel, Geuze: "Reorganization of multivesicular bodies regulates MHC class II antigen presentation by dendritic cells." in: **The Journal of cell biology**, Vol. 155, Issue 1, pp. 53-63, (2001) ([PubMed](#)).

Clausen, Waldburger, Schwenk, Barras, Mach, Rajewsky, Förster, Reith: "Residual MHC class II expression on mature dendritic cells and activated B cells in RFX5-deficient mice." in: **Immunity**, Vol. 8, Issue 2, pp. 143-55, (1998) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of MHCII on murine splenocytes with anti-MHCII (M5/114) azide free, GAR-APC.