

Datasheet for ABIN7505997
anti-MHC Class II antibody (Biotin)[Go to Product page](#)

2 Images

Overview

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

Product Details

Purpose:	Anti-Ms MHC Class II Biotin
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.
Purification:	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

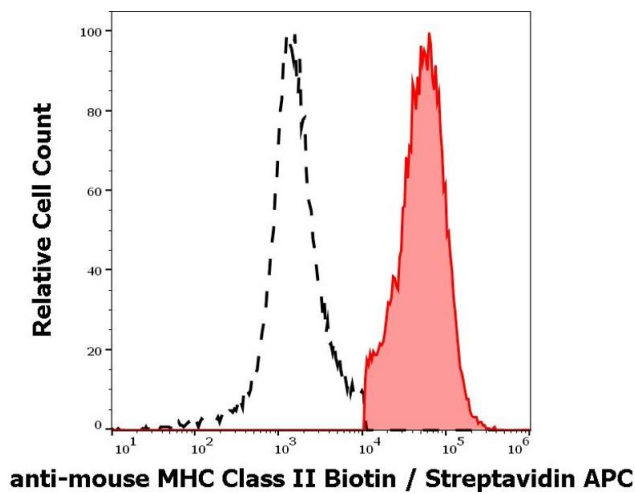
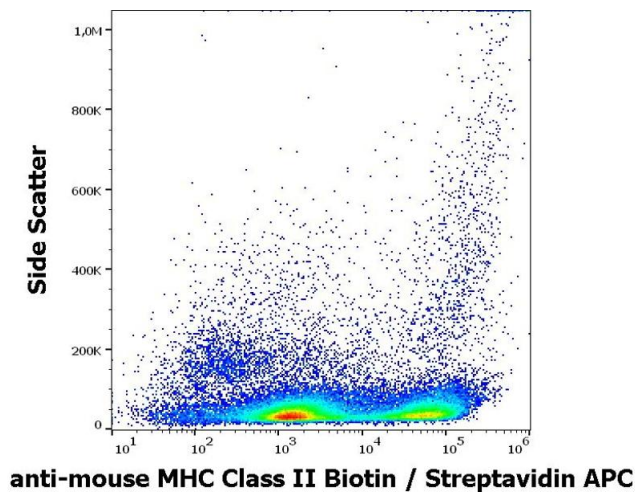
Target:	MHC Class II (MHC2)
Alternative Name:	MHC Class II (MHC2 Products)
Background:	MHC (major histocompatibility complex) class II molecules are transmembrane glycoproteins expressed on the surface of professional antigen-presenting cells, such as macrophages, dendritic cells and B cells. Before 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:	Flow cytometry: Recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of murine splenocyte suspension using anti-mouse MHC Class II (M5/114) Biotin antibody (concentration in sample 9 µg/mL, Streptavidin APC).

Flow Cytometry

Image 2. Separation of murine MHC Class II positive splenocytes (red-filled) from MHC Class II negative splenocytes (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-mouse MHC Class II (M5/114) Biotin antibody (concentration in sample 9 µg/mL, Streptavidin APC).