Datasheet for ABIN5067814

anti-MHC Class II HLA-DP/DQ/DR antibody

2 Images

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Overview

Quantity:	100 µg
Target:	MHC Class II HLA-DP/DQ/DR (HLA-DP/DQ/DR)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Priess human B cell line
Clone:	IVA12
Isotype:	IgG1 kappa
Characteristics:	The clone IVA12 recognizes the shared epitopes of human leucocyte antigen (HLA) class II molecules HLA-DP, HLA-DQ and HLA-DR heterodimeric cell surface glycoproteins comprised of an α (heavy) chain and a β (light) chain. They are expressed on B cells, activated T cells, monocytes/macrophages, dendritic cells, and other non-professional antigen presenting cells (APCs). HLA-Class II expressing APCs specifically present antigens recognized by TCR/CD3 complex of CD4+ T cells. Reactive microglia and perivascular cells in multiple sclerosis lesions express all three types of HLA-Class II molecules, whereas microglia in the normal CNS expressed HLA-DR only.
Purification:	Purified
Purity:	>95 %

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Product Details

Grade:	GMP Grade

Target Details

Target:	MHC Class II HLA-DP/DQ/DR (HLA-DP/DQ/DR)
Alternative Name:	HLA-DR, DP, DQ (HLA-DP/DQ/DR Products)
Background:	The clone IVA12 recognizes the shared epitopes of human leucocyte antigen (HLA) class II molecules HLA-DP, HLA-DQ and HLA-DR heterodimeric cell surface glycoproteins comprised of an α (heavy) chain and a β (light) chain. They are expressed on B cells, activated T cells, monocytes/macrophages, dendritic cells, and other non-professional antigen presenting cells (APCs). HLA-Class II expressing APCs specifically present antigens recognized by TCR/CD3 complex of CD4+ T cells. Reactive microglia and perivascular cells in multiple sclerosis lesions express all three types of HLA-Class II molecules, whereas microglia in the normal CNS expressed HLA-DR only.
Pathways:	Human Leukocyte Antigen (HLA) in Adaptive Immune Response

Application Details

Application Notes:	Each lot of this antibody has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 0.5µg is sufficient for staining 1 million cells in a 100µl staining volume or 100µl of whole blood. It is recommended to titrate antibody reactivity empirically for optimal performance.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS pH 7.2, 0.1 % (w/v) BSA, 0.09 % (w/v) 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

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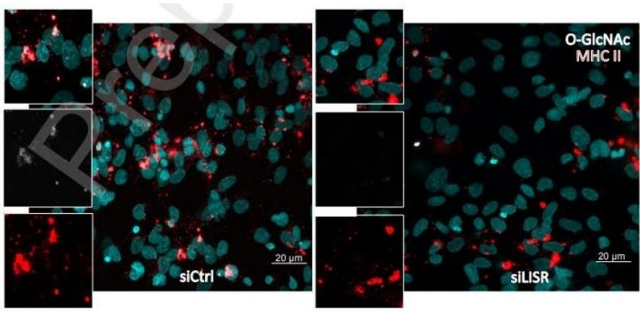
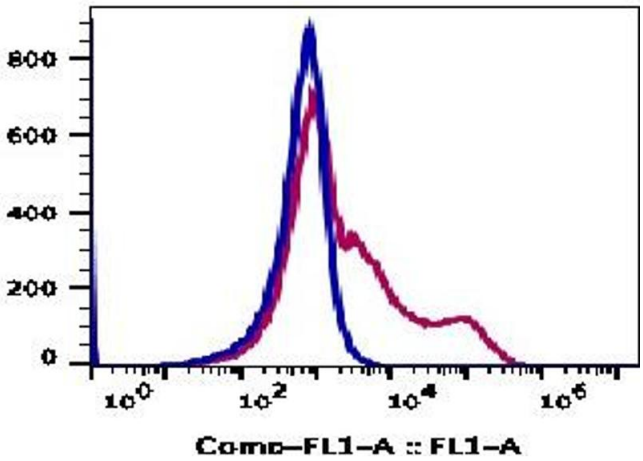


Immunostaining

Image 1. Co-staining for the MHCII (Red) and O-GlcNac (grey) revealed an overlap between the glycosylation signal and the antigen presenting machinery. Source: 10.2139/ssrn.4430396



Flow Cytometry

Image 2.