Caprico Biotechnologies

TECHNICAL DATA SHEET

HLA-DR, DP, DQ (IVA12)

Type	Size	Catalog number
Unconjugated	100µg	104701
	500µg	104703

Antigen: HLA-DR, DP, DQ
Immunogen: Priess human B cell line
Host/Isotype: Mouse, IgG1, κ
Reactivity: Human
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09%NaN_3 (unconjugated)
PBS, pH7.2, 0.09% NaN_3 and 0.2% (w/v) BSA (conjugated)
Storage: Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**
Applications: Flow Cytometry

Application Information

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.

Antigen Information

The clone IVA12 recognizes the shared epitopes of human leukocyte 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 express HLA-DR only.

References

1. Zamoyyska, R. 1998. Curr. Opin. Immunol. 10:82-86.
2. Ulvestad, E et al. 1994. Immunology. 82(4): 535–541.
3. Mingjun W et al. 2011. Immunology. 132:482-491.

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.

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