

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HLA-DR.
Source	Monoclonal Mouse IgG ₁ Clone # L203
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	RPMI 8866 human lymphoblastoid cells Accession # P01903
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10 ⁶ cells	Human peripheral blood lymphocytes

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

HLA-DR is a transmembrane human major histocompatibility complex 2 (MHC II) family member and consists of a 34 kDa (alpha) subunit and one of several 28 kDa (beta) subunits. HLA-DR is expressed primarily by B cells and dendritic cells (DC), in which it binds peptides derived from internalized and processed antigenic proteins. It presents these peptides on the cell surface for recognition by the T cell receptor on CD4⁺ T cells. This interaction is central to antigen specificity in the adaptive immune response. HLA-DR alleles, polymorphisms, and aberrant expression are linked to a variety of diseases including autoimmunity and cancer.