

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD2 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 299808
Purification	Protein A or G purified from ascites
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD2 Lys25-Asp209 Accession # P06729
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 either lyophilized or 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
Western Blot	2 µg/mL	See Below
Flow Cytometry	0.25 µg/mL	See Below

DATA

Western Blot

Detection of Human CD2 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line and Ramos human Burkitt's lymphoma cell line (negative control). PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human CD2 Monoclonal Antibody (Catalog # MAB18562) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for CD2 at approximately 50 kDa (as indicated). GAPDH (Catalog # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Flow Cytometry

Detection of CD2 in Human Blood Lymphocytes by Flow Cytometry. Human peripheral blood lymphocytes were stained with (A) Mouse Anti-Human CD2 Monoclonal Antibody (Catalog # MAB18562) or (B) Mouse IgG1 Isotype Control (Catalog # MAB002), followed by PE-conjugated anti-Mouse IgG secondary antibody (Catalog # F0102B) and Mouse Anti-Human CD3 epsilon APC-conjugated Monoclonal Antibody (Catalog # FAB100A). View our protocol for [Staining Membrane-associated Proteins](#).

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

CD2 is a type I glycoprotein belonging to the Ig superfamily and is expressed on T, NK, B, and some antigen presenting cells. Human CD2 binds human CD58 on antigen-presenting cells to induce co-stimulating signals in T cells.