

Product Datasheet

CD45 Antibody (orb233593)

Catalog Number	orb233593
Category	Antibodies
Description	Mouse monoclonal antibody to CD45
Target	CD45
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Conjugation	Unconjugated
Reactivity	Human
Concentration	1 mg/ml
Buffer/Preservatives	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Purification	Purified by protein-A affinity chromatography.
Immunogen	Human peripheral blood mononuclear cells
UniProt ID	P08575
Tested applications	FC, WB
Application notes	Flow cytometry: Recommended dilution: 1-4 µg/ml. Western blotting: non-reducing conditions; recommended dilution: 1 µg/ml; 6-7% gel recommended (band around 180-250 kDa).

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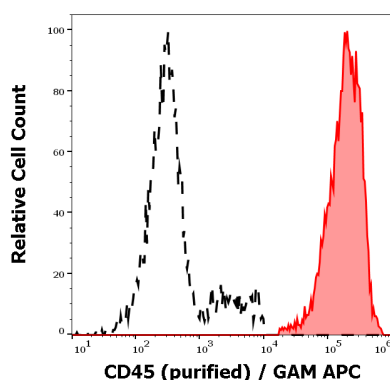
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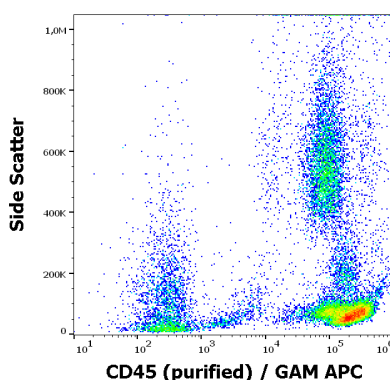
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Specificity	The mouse monoclonal antibody 2D1 reacts with an extracellular epitope of all alternative forms of human CD45 antigen (Leukocyte Common Antigen), a 180-220 kDa single chain type I transmembrane protein expressed at high level on all cells of hematopoietic origin, except from erythrocytes and platelets.
Antibody Type	Primary Antibody
Clone Number	2D1
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Entrez	5788
Expiration Date	12 months from date of receipt.



Separation of human CD45 positive lymphocytes (red-filled) from CD45 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of peripheral whole blood stained using anti-human CD45 (2D1) purified antibody (concentration in sample 3 µg/ml, GAM APC).



Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD45 (2D1) purified antibody (concentration in sample 3 µg/ml, GAM APC).

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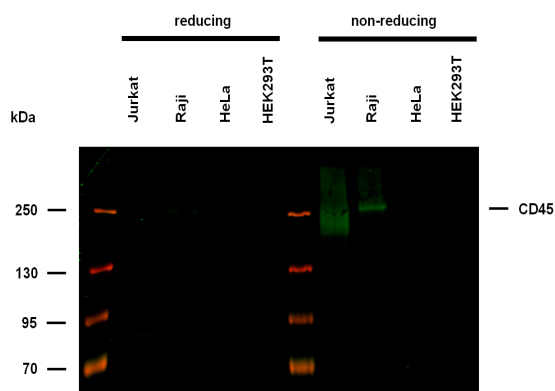
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Anti-Hu CD45 Purified (clone 2D1) works in WB application under non-reducing conditions. Western blotting analysis was performed on whole cell extracts (RIPA lysis buffer) of Jurkat, Raji, HeLa, and HEK293T cell lines, mixed and heated (100°C, 5 min) with reducing and non-reducing SDS-loading buffer. Samples were resolved using 7% Tris-glycine SDS gel electrophoresis. Nitrocellulose membrane blot was probed with mouse IgG1 monoclonal antibody 2D1 (1 µg/ml), followed by IRDye 800CW Goat-anti-Mouse IgG (green). Multiplex fluorescent Western blot detection was performed. CD45 molecules were detected at ~180-250 kDa in Jurkat and Raji cell lines.

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