

Product Datasheet

CD45 Antibody Cocktail (orb248525)

Catalog Number	orb248525
Category	Antibodies
Description	<p>This antibody cocktail contains an antibody which binds to all CD45 leukocyte common antigen (LCA) family isoforms (clone 2B11), and an antibody specific to the CD45RB isoform (clone PD7/26). CD45 is expressed on hematopoietic cell lines but absent on non-hematopoietic cell lines, normal and malignant non-hematopoietic tissues. The intracellular portions of the CD45 isoforms have protein phosphatase activity and are involved in regulation of transmembrane signals. antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms. A positive result with this antibody cocktail is highly indicative of lymphoid or myeloid origin. Certain types of lymphoid neoplasms may lack CD45 (Hodgkin lymphoma, some T-cell lymphomas, and some leukemias) so its absence does not rule out a hematomphoid tumor. This antibody cocktail detects CD45 expressed almost exclusively by cells of hematopoietic lineage and is present in most benign and malignant lymphocytes as well as plasma cell precursors.</p>
Clonality	Monoclonal
Species/Host	Mouse
Isotype	Mouse IgG1, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein G affinity chromatography

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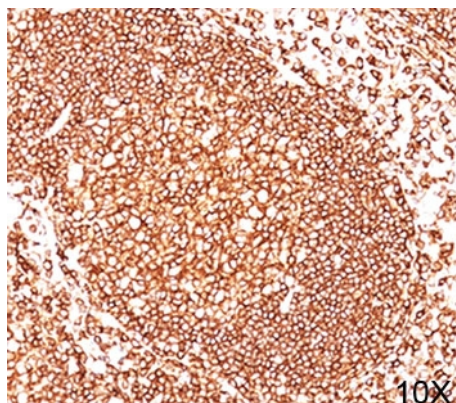
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Immunogen	Isolated neoplastic cells from T cell lymphoma were used as the immunogen for clone 2B11 and human peripheral blood lymphocytes maintained in Tcell growth factor were used as the immunogen for clone PD7/26.
Tested applications	FACS, IHC-P, WB
Dilution range	Flow cytometry: 0.5-2ug/10 ⁶ cells,Western blot: 1-2ug/ml,Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Application notes	The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the CD 45 antibody cocktail to be titered up or down for optimal performance.1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes.2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.
Antibody Type	Primary Antibody
Clone Number	2B11 + PD7/26
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
Expiration Date	12 months from date of receipt.



IHC testing of human tonsil (10X) stained with CD45 antibody cocktail (2B11 + PD7/26).

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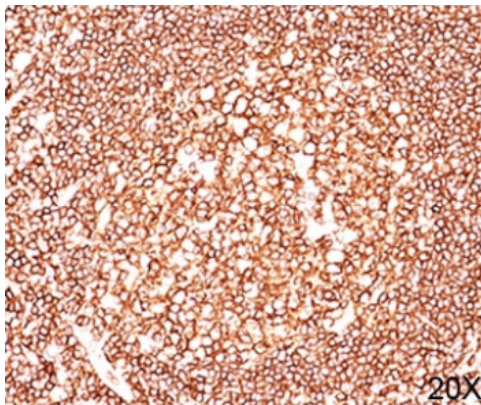
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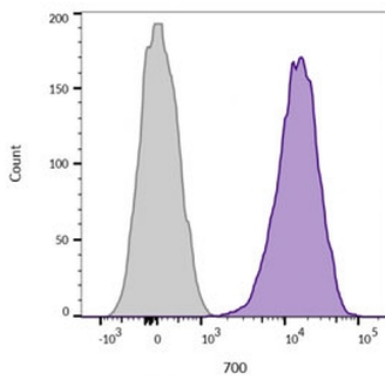
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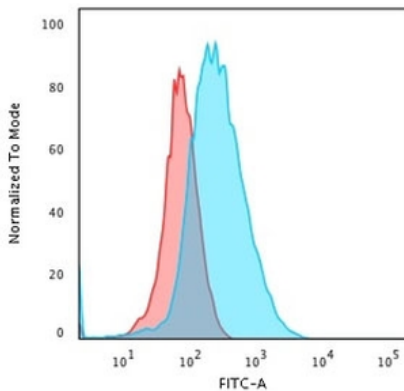
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IHC testing of human tonsil (20X) stained with CD45RB antibody cocktail (2B11 + PD7/26).



Flow cytometry testing of live human Jurkat cells with CD45 antibody cocktail (clone 2B11 + PD7/26); Gray = isotype control, Purple = CD45 antibody cocktail.



Flow cytometry testing of PFA-fixed human Jurkat cells with CD45 antibody cocktail (clone 2B11 + PD7/26); Red = isotype control, Blue = CD45 antibody cocktail antibody.

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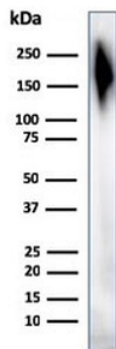
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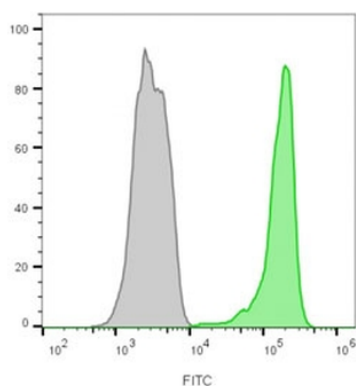
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Western blot testing of human spleen tissue lysate with CD45 antibody cocktail.



Flow cytometry testing of lymphocyte-gated human PBM cells with CD45 antibody cocktail (clone 2B11, green), and unstained cells (gray).

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