

## CD45 / LCA (B-Cell Marker) Antibody

Mouse Monoclonal Antibody [Clone PTPRC/1666]

Catalog No	Format	Size
5788-MSM35-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5788-MSM35-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5788-MSM35-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

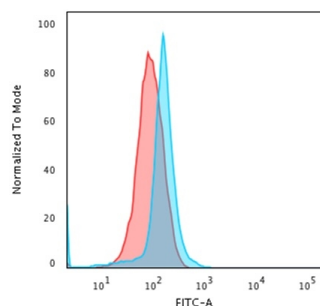
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Western Blot (WB)	2-4ug/ml	

### Product Details

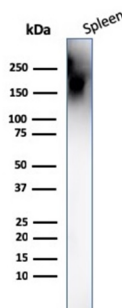
<b>Clone</b>	PTPRC/1666
<b>Gene Name</b>	PTPRC
<b>Immunogen</b>	Human recombinant full-length CD45 protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	180-220kDa
<b>Cellular Localization</b>	Cell membrane, Membrane raft
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	or GA-10 cells. Human tonsil or spleen., Ramos, U-698

\*Optimal dilution for a specific application should be determined.

### Product Images for CD45 / LCA (B-Cell Marker) Antibody



Flow Cytometric Analysis of paraformaldehyde-fixed Jurkat cells using CD45 Mouse Recombinant Monoclonal Antibody (PTPRC/1666) followed by Goat anti-mouse- IgG-CF488 (Blue); Isotype Control (Red).



Western Blot Analysis of human spleen tissue lysates using CD45 Mouse Recombinant Monoclonal Antibody (PTPRC/1666)

**Specificity & Comments**

CD45R, also designated CD45 and PTPRC, has been identified as a transmembrane glycoprotein, broadly expressed among hematopoietic cells. Multiple isoforms of CD45R are distributed throughout the immune system according to cell type. These isoforms arise because of alternative splicing of exons 4, 5, and 6. The corresponding protein domains are characterized by the binding of monoclonal antibodies specific for CD45RA (exon 4), CD45RB (exon 5), CD45RC (exon 6) and CD45RO (exons 4 to 6 spliced out). The variation in these isoforms is localized to the extracellular domain of CD45R, while the intracellular domain is conserved. CD45R functions as a phosphor-tyrosine phosphatase. Antibody to CD45 is useful in differential diagnosis of lymphoid tumors from non-hematopoietic undifferentiated neoplasms.

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**Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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**Supplied As**

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

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**Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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**Research Areas**

Developmental Biology, Immunology, B Cell Markers, Dendritic Cell Marker, Hematopoietic Stem Cells, Mesenchymal Stem Cell Differentiation

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