

## CD45RO (LCA) (Activated T-cell Marker) Antibody

Mouse Monoclonal Antibody [Clone PTPRC/1666]

Catalog No	Format	Size
5788-MSM36-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
5788-MSM36-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
5788-MSM36-P1ABX	Purified Ab WITHOUT BSA or Azide at 1.0mg/ml	100 ug

Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	

### Product Details

<b>Clone</b>	PTPRC/1666
<b>Immunogen</b>	Recombinant human PTPRC protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	147.48kDa
<b>Cellular Localization</b>	Cell membrane, Membrane raft, Synapse
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Isoform 1: Detected in thymocytes

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

### Product Images for CD45RO (LCA) (Activated T-cell Marker) Antibody

#### Specificity & Comments

Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor (PubMed:35767951). Acts as a positive regulator of T-cell coactivation upon binding to DPP4. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. Upon T-cell activation, recruits and dephosphorylates SKAP1 and FYN. Dephosphorylates LYN, and thereby modulates LYN activity (By similarity). Interacts with CLEC10A at antigen presenting cell-T cell contact; CLEC10A on immature dendritic cells recognizes Tn antigen-carrying PTPRC/CD45 receptor on effector T cells and modulates T cell activation threshold to limit autoreactivity., (Microbial infection) Acts as a receptor for human cytomegalovirus protein UL11 and mediates binding of UL11 to T-cells, leading to reduced induction of tyrosine phosphorylation of multiple signaling proteins upon T-cell receptor stimulation and impaired T-cell proliferation.

#### 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.

#### Supplied As

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

#### 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.