



CD45 Recombinant Monoclonal Antibody

Product Code	CSB-RA019049A0HU
Abbreviation	Receptor-type tyrosine-protein phosphatase C
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P08575
Immunogen	A synthesized peptide
Species Reactivity	Human
Tested Applications	ELISA
Relevance	Protein tyrosine-protein phosphatase required for T-cell activation through the antigen receptor. 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).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Receptor-type tyrosine-protein phosphatase C, Leukocyte common antigen, L-CA, T200, CD45, PTPRC
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology
Gene Names	PTPRC
Clone No.	3B10

Description

CD45 antibody CSB-RA019049A0HU is a recombinant monoclonal antibody produced from the expression of the plasmids that were constructed by the CD45 monoclonal antibody (generated from animals with the human CD45 synthesized peptide immunization) DNA sequence in cell lines. The CD45 antibody was purified through the affinity-chromatography method. It is a rabbit IgG antibody. It reacts with the CD45 protein from human samples. And it is suitable for ELISA analysis.

CD45 is a receptor-like tyrosine phosphatase that is only found in the hematopoietic system. CD45 plays a crucial function in the growth and activation of T lymphocytes. CD45 is a valuable marker for the differential



diagnosis of undifferentiated lymphoma because of its leukocyte-specific tissue distribution.