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Anti-CD45-AcalephFluor488-labled

Catalog # AP100684

Product Information

Application	FC, IF/IC
Primary Accession	P06800
Reactivity	Mouse
Clonality	Monoclonal
Calculated MW	144837

Additional Information

Gene ID	19264
Other Names	CD45; Receptor-type tyrosine-protein phosphatase C; Leukocyte common antigen; L-CA; T200; CD45
Target/Specificity	Recognizes mouse CD45
Dilution	FC~~1:10~50 IF/IC~~N/A
Format	Rat IgG2b kappa. Liquid in PBS, pH 7.3, 0.2% BSA, and 0.02% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	Ptprc {ECO:0000312|MGI:MGI:97810}
Synonyms	Ly-5
Function	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 (By similarity). Dephosphorylates LYN, and thereby modulates LYN activity. 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.
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P08575}; Single-pass type I membrane protein. Membrane raft {ECO:0000250|UniProtKB:P08575}. Synapse {ECO:0000250|UniProtKB:P08575} Note=Colocalized with DPP4 in membrane rafts {ECO:0000250|UniProtKB:P08575}

Background

AcalephFluor488-labled rat monoclonal antibody to CD45

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.