

产品说明书

CD45 Rabbit mAb

货号：HL23506

产品名称	CD45 Rabbit mAb
来源宿主	Rabbit
反应种属	Mouse
克隆类型	Rabbit monoclonal
克隆号	H301
同种型	IgG
标记	unconjugated
纯化方式	Protein A affinity purified.
形式	Liquid
存储溶液	PBS (pH7.4),0.05% BSA,40% Glycerol. Preservative: 0.05% Sodium Azide.
存储方式	Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles. Stable for 12 months.
应用	WB,IHC-P,IHC-Fr,mIHC,IF
使用方法	WB 1:2500; IHC-P 1:200-1:1000;IHC-Fr 1:200-1:500 mIHC 1:200-1:1000;IF 1:50-1:200
有效期	one year
别名	Leukocyte common antigen (L-CA); L-CA; B220
免疫原	Recombinant protein within mouse CD45 aa 1-566.
SwissProt	P06800
细胞定位	Cell membrane, Membrane raft, Synapse.
分子量	Predicted band size: 145 kDa
产品介绍	CD45, also known as Protein Tyrosine Phosphatase Receptor Type C (PTPRC), is a member of the protein tyrosine phosphatase (PTP) family. It is a type I transmembrane protein expressed on the surface of all differentiated hematopoietic cells, except erythrocytes and plasma cells. CD45 plays a crucial role in regulating T-cell and B-cell antigen receptor signaling, which is essential for immune cell activation and function. CD45 consists of an extracellular domain, a single transmembrane segment, and two tandem intracytoplasmic catalytic domains. While only one of the cytoplasmic domains has intrinsic phosphatase activity, both domains are necessary for substrate recruitment. CD45 activates Src family kinases, such as Lck, which are required for T-cell receptor (TCR) signaling. It also modulates the activity of other kinases, including LYN and FYN, and suppresses JAK kinases, thereby acting as a negative regulator of cytokine receptor signaling. CD45 is involved in various cellular processes, including cell growth, differentiation, and immune response regulation. Dysregulation of CD45 function can lead to severe combined immunodeficiency and is implicated in autoimmune diseases, cancer, and infectious diseases. Additionally, CD45 exists in multiple isoforms, which are used in immunohistochemistry to differentiate between immune cell types and diagnose lymphomas and carcinomas.

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