

30-1538: Anti-CD5 Monoclonal Antibody (Clone:53-7.3)

Clonality :	Monoclonal
Clone Name :	53-7.3
Application :	FACS, IP, IHC, IHC-Fr
Reactivity :	Mouse
Gene :	Cd5
Gene ID :	12507
Uniprot ID :	P13379
Format :	Purified
Alternative Name :	Cd5, Ly-1
Isotype :	Rat IgG2a
Immunogen Information :	mouse thymus or spleen cells

Description

CD5 (T1) is a single-chain transmembrane glycoprotein expressed on all mature T-lymphocytes, most of thymocytes, subset of B-lymphocytes and on many T-cell leukemias and lymphomas. It is a type I membrane glycoprotein whose extracellular region contains three scavenger receptor cysteine-rich (SRCR) domains. CD5 modulates signaling through the antigen-specific receptor complex (TCR and BCR). CD5 crosslinking induces extracellular Ca^{++} mobilization, tyrosine phosphorylation of intracellular proteins and DAG production. CD5 may serve as a dual receptor, giving either stimulatory or inhibitory signals depending both on the cell type and development stage. In thymocytes and B1a cells seems to provide inhibitory signals, in peripheral mature T lymphocytes it acts as a costimulatory signal receptor. CD5 is the phenotypic marker of a B cell subpopulation involved in the production of autoreactive antibodies.

Product Info

Amount :	0.1 mg
Purification :	Purified from hybridoma culture supernatant by protein-G affinity chromatography.
Storage condition :	Store at 2-8°C. Do not freeze.