

Product datasheet for **AM39067SU-N**

Cd5 Mouse Monoclonal Antibody [Clone ID: HIS47]

Product data:

Product Type:	Primary Antibodies
Clone Name:	HIS47
Applications:	IF, IHC
Recommended Dilution:	Flow cytometry. Immunofluorescence. Immunohistochemistry on frozen sections.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	The antibody recognizes peripheral T lymphocytes and thymocytes (CD5). In rats, a CD5+ subset of B lymphocytes has not been characterized.
Formulation:	State: Supernatant State: Liquid cell culture supernatant containing 0.09% sodium azide
Conjugation:	Unconjugated
Storage:	Store undiluted a 2-8°C.
Gene Name:	Cd5 molecule
Database Link:	Entrez Gene 54236 Rat P51882



[View online »](#)

Background:

CD5 antigen (T1; 67 kDa) is a human cell surface T-lymphocyte single-chain transmembrane glycoprotein. CD5 is expressed on all mature T-lymphocytes, most of thymocytes, (human) 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. The CD5 is a signal transducing molecule whose cytoplasmic tail is devoid of any intrinsic catalytic activity. 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. Preliminary evidence shows protein associations with ZAP-70, p56lck, p59fyn, PC-PLC, etc. 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. CD72 is the major ligand for CD5.

Synonyms:

CD5, LEU1