

Product datasheet for **TA700572**

CD5 Biotinylated Mouse Monoclonal Detection Antibody [Clone ID: OTI10H3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI10H3
Applications:	ELISA
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human CD5 (NP_055022) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Predicted Protein Size:	54.6 kDa
Gene Name:	CD5 molecule
Database Link:	NP_055022 Entrez Gene 921 Human P06127



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Background:	CD5 is a cluster of differentiation expressed on the surface of T cells and in a subset of murine B cells known as B-1a. CD5 serves to mitigate activating signals from the BCR so that the B-1 cells can only be activated by very strong stimuli (such as bacterial proteins) and not by normal tissue proteins. In humans, the gene is located on the long arm of chromosome 11. T cells express higher levels of CD5 than B cells. CD5 is upregulated on T cells upon strong activation. In the thymus, there is a correlation with CD5 expression and strength of the interaction of the T cell towards self-peptides. CD5 is a good immunohistochemical marker for T-cells. About 76% of T-cell neoplasms are reported to express CD5, and it is also found in chronic lymphocytic leukemia and mantle cell lymphoma, that do not express CD3. It is commonly lost in cutaneous T-cell lymphoma, and its absence can be used as an indicator of malignancy in this condition. The absence of CD5 in T cell acute lymphoblastic leukemia, while relatively rare, is associated with a poor prognosis. In addition, some research data confirmed the prognostic value of CD5 expression in NSCLC.
Synonyms:	LEU1; T1
Matched ELISA Pair:	TA600572
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Hematopoietic cell lineage