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Anti-CD5 Reference Antibody (Magenta patent anti-CD5)

Recombinant Antibody
Catalog # APR10810

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P06127
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	54578

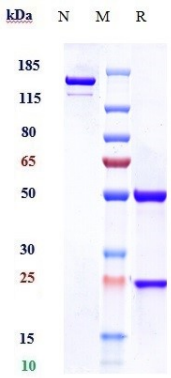
Additional Information

Target/Specificity	CD5
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

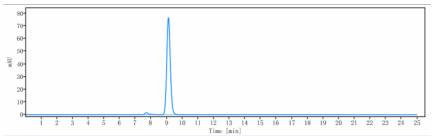
Protein Information

Name	CD5
Synonyms	LEU1
Function	Lymphoid-specific receptor expressed by all T-cells and in a subset of B-cells known as B1a cells. Plays a role in the regulation of TCR and BCR signaling, thymocyte selection, T-cell effector differentiation and immune tolerance. Acts by interacting with several ligands expressed on B-cells such as CD5L or CD72 and thereby plays an important role in contact-mediated, T-dependent B-cell activation and in the maintenance of regulatory T and B-cell homeostasis. Functions as a negative regulator of TCR signaling during thymocyte development by associating with several signaling proteins including LCK, CD3Z chain, PI3K or CBL (PubMed:1384049, PubMed:1385158). Mechanistically, co- engagement of CD3 with CD5 enhances phosphorylated CBL recruitment leading to increased VAV1 phosphorylation and degradation (PubMed:23376399). Modulates B-cell biology through ERK1/2 activation in a Ca(2+)-dependent pathway via the non-selective Ca(2+) channel TRPC1, leading to IL-10 production (PubMed:27499044).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P13379}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P13379}

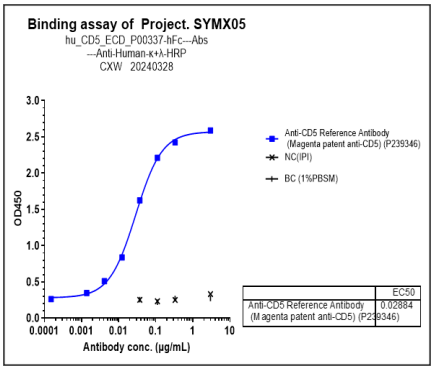
Images



Anti-CD5 Reference Antibody (Magenta patent anti-CD5) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 90%.



The purity of Anti-CD5 Reference Antibody (Magenta patent anti-CD5) is more than 95%, determined by SEC-HPLC.



Immobilized human CD5 Fc at 2 ug/mL can bind Anti-CD5 Reference Antibody (Magenta patent anti-CD5), The EC50 is 0.02884 ug/mL.

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