

# CD5 Rabbit mAb

Catalog # AP77769

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, IP
<b>Primary Accession</b>	<a href="#">P06127</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human CD5
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	54578

## Additional Information

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<b>Gene ID</b>	921
<b>Other Names</b>	CD5
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A IP~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	CD5
<b>Synonyms</b>	LEU1
<b>Function</b>	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: <a href="#">1384049</a> , PubMed: <a href="#">1385158</a> ). Mechanistically, co- engagement of CD3 with CD5 enhances phosphorylated CBL recruitment leading to increased VAV1 phosphorylation and degradation (PubMed: <a href="#">23376399</a> ). Modulates B-cell biology through ERK1/2 activation in a

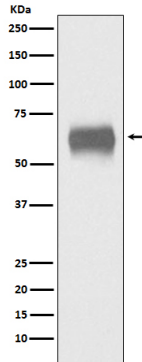
Ca(2+)-dependent pathway via the non-selective Ca(2+) channel TRPC1, leading to IL-10 production (PubMed:[27499044](#)).

## Cellular Location

Cell membrane {ECO:0000250 | UniProtKB:P13379}; Single-pass type I membrane protein {ECO:0000250 | UniProtKB:P13379}

## Images

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