

CD5 (phospho Tyr453) Polyclonal Antibody
Catalog # AP67476**Specification**

CD5 (phospho Tyr453) Polyclonal Antibody - Product Information

Application	WB, IHC-P, IF
Primary Accession	P06127
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

CD5 (phospho Tyr453) Polyclonal Antibody - Additional Information**Gene ID** 921**Other Names**

CD5; LEU1; T-cell surface glycoprotein CD5; Lymphocyte antigen T1/Leu-1; CD antigen CD5

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.

IHC-P~~N/A

IF~~1:50~200

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CD5 (phospho Tyr453) Polyclonal Antibody - 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:<a

[23376399](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/27499044)>).

Cellular Location

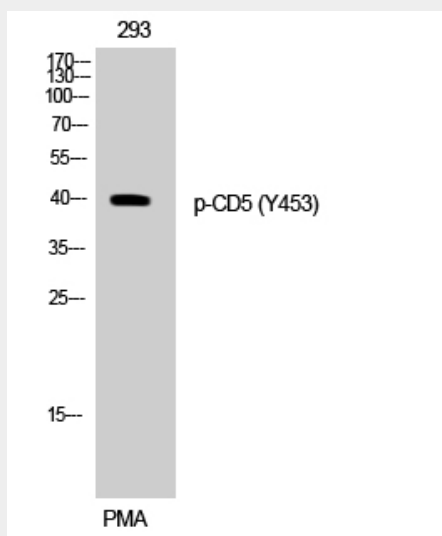
Cell membrane {ECO:0000250|UniProtKB:P13379}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P13379}

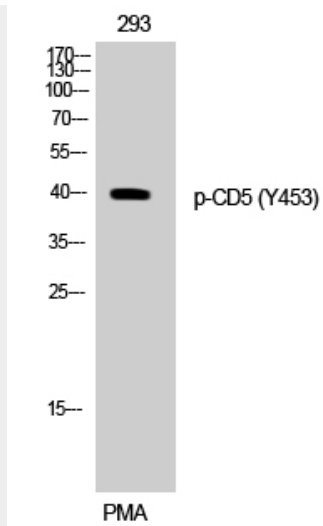
CD5 (phospho Tyr453) Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD5 (phospho Tyr453) Polyclonal Antibody - Images





CD5 (phospho Tyr453) Polyclonal Antibody - Background

May act as a receptor in regulating T-cell proliferation.