

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

Application	WB
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.

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](http://www.uniprot.org/citations/1384049)), PubMed:[1385158](http://www.uniprot.org/citations/1385158)).

Mechanistically, co- engagement of CD3 with CD5 enhances phosphorylated CBL recruitment leading to increased VAV1 phosphorylation and degradation (PubMed:[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).

Cellular Location

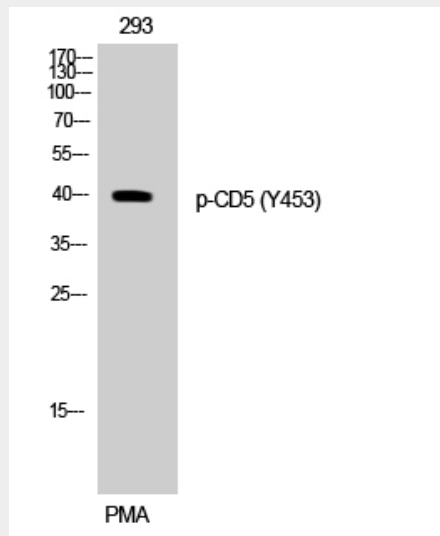
Cell membrane {ECO:0000250|UniProtKB:P13379}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P13379}

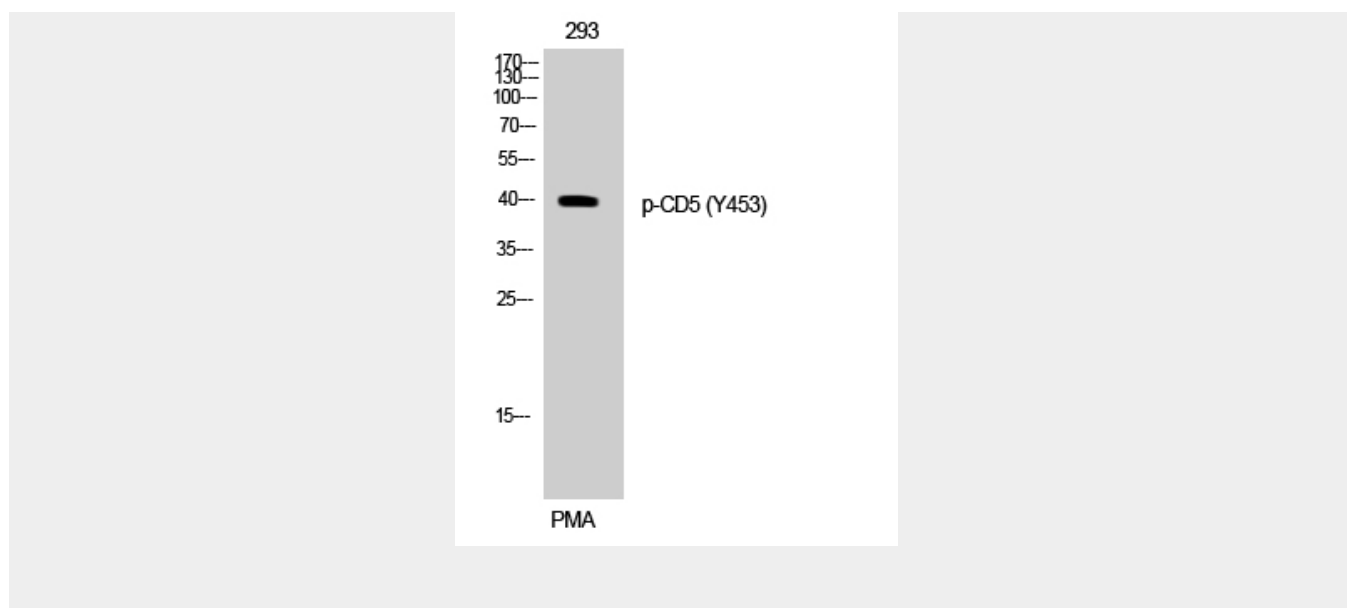
CD5 (phospho Tyr453) Polyclonal Antibody - Protocols

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.