

**Anti-CD5 Reference Antibody (Magenta patent anti-CD5)  
Recombinant Antibody  
Catalog # APR10810**

**Specification**

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**Anti-CD5 Reference Antibody (Magenta patent anti-CD5) - Product Information**

Application	FC, E, FTA
Primary Accession	<a href="#">P06127</a>
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Calculated MW	150 KDa

**Anti-CD5 Reference Antibody (Magenta patent anti-CD5) - Additional Information**

**Target/Specificity**  
CD5

**Endotoxin**  
< 0.001EU/ µg,determined by LAL method.

**Conjugation**  
Unconjugated

**Expression system**  
CHO Cell

**Format**  
Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

**Storage**  
-80°C for 2 years under sterile conditions □ -20°C for 1 year under sterile conditions □ Avoid repeated freeze-thaw cycles.

**Anti-CD5 Reference Antibody (Magenta patent anti-CD5) - 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:<a href="http://www.uniprot.org/citations/1385158" target="\_blank">1385158</a>, PubMed:<a href="http://www.uniprot.org/citations/1384049" target="\_blank">1384049</a>). Mechanistically, co- engagement of CD3 with CD5 enhances phosphorylated CBL recruitment leading to increased VAV1 phosphorylation and degradation (PubMed:<a href="http://www.uniprot.org/citations/23376399" target="\_blank">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:<a href="http://www.uniprot.org/citations/27499044" target="\_blank">27499044</a>).

### Cellular Location

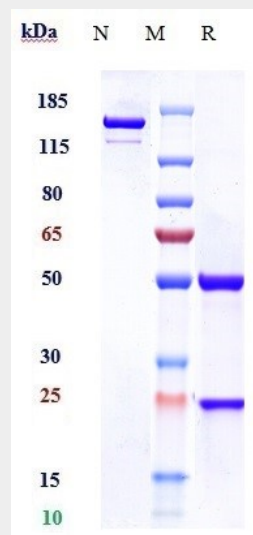
Cell membrane {ECO:0000250|UniProtKB:P13379}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P13379}

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

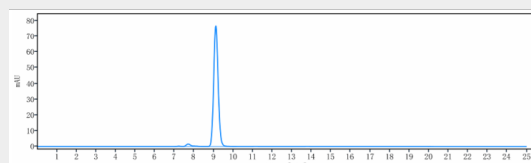
Provided below are standard protocols that you may find useful for product applications.

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

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



Anti-CD5 Reference Antibody (Magenta patent anti-CD5) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. 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.