

CD5 Monoclonal Antibody(10G8)
Catalog # AP63325**Specification****CD5 Monoclonal Antibody(10G8) - Product Information**

Application	IHC-P, IF
Primary Accession	P06127
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal

CD5 Monoclonal Antibody(10G8) - Additional Information**Gene ID** 921**Other Names**

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

Dilution

IHC-P~~N/A

IF~~1:50~200

Format

PBS, pH 7.4, containing 0.09% (W/V) sodium azide as Preservative and 50% Glycerol.

Storage Conditions

-20°C

CD5 Monoclonal Antibody(10G8) - 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

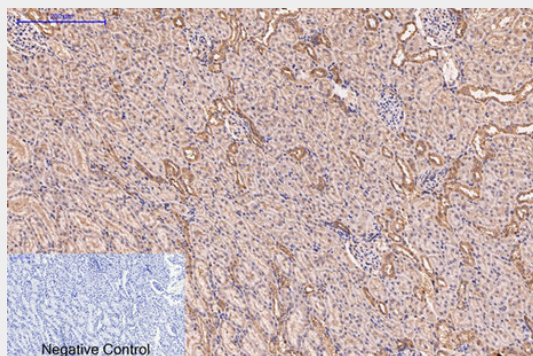
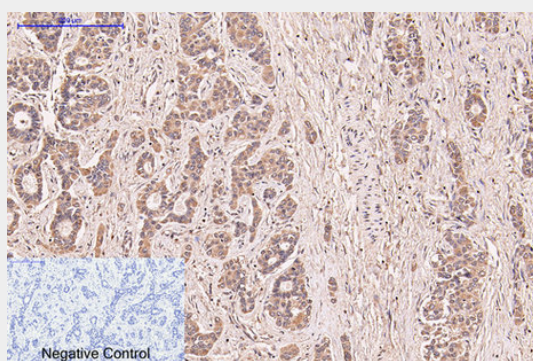
Cell membrane {ECO:0000250|UniProtKB:P13379}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P13379}

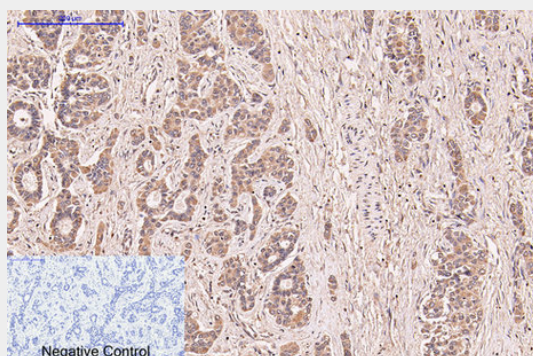
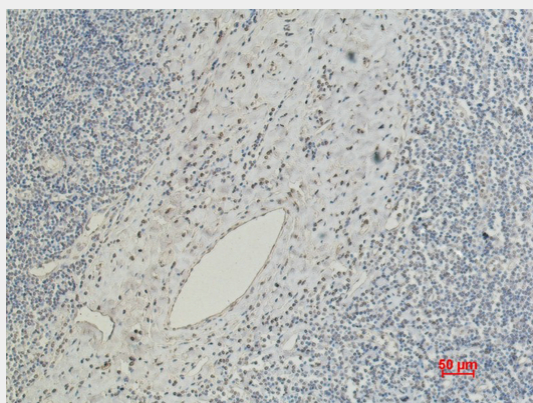
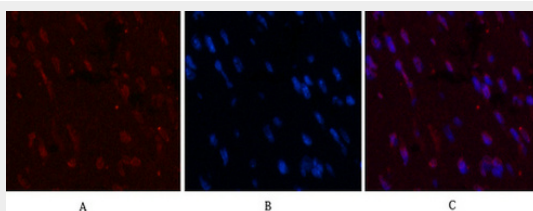
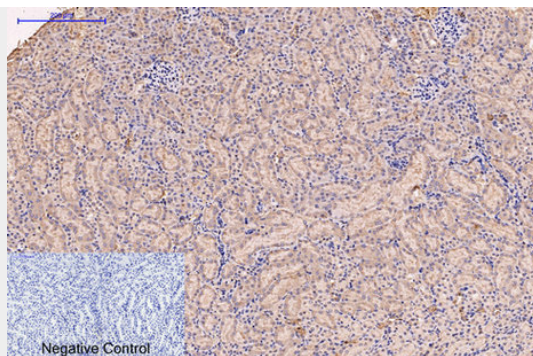
CD5 Monoclonal Antibody(10G8) - Protocols

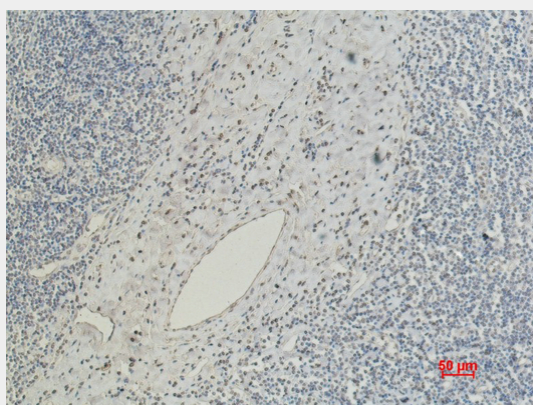
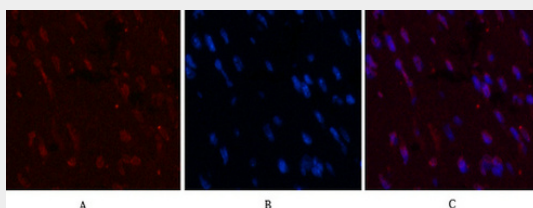
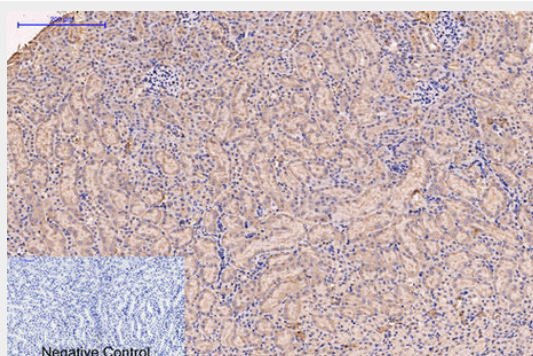
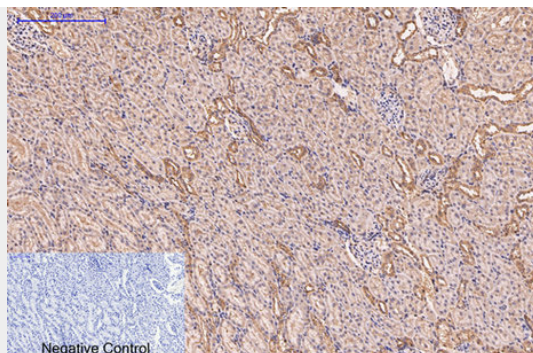
Provided below are standard protocols that you may find useful for product applications.

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

CD5 Monoclonal Antibody(10G8) - Images







CD5 Monoclonal Antibody(10G8) - Background

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