

Anti-CD6 Antibody
Rabbit polyclonal antibody to CD6
Catalog # AP61005**Specification****Anti-CD6 Antibody - Product Information**

Application	WB
Primary Accession	P30203
Other Accession	Q61003
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71801

Anti-CD6 Antibody - Additional Information**Gene ID** 923**Other Names**

T-cell differentiation antigen CD6; T12; TP120; CD6

Target/Specificity

Recognizes endogenous levels of CD6 protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-CD6 Antibody - Protein Information**Name** CD6 ([HGNC:1691](#))**Function**

Cell adhesion molecule that mediates cell-cell contacts and regulates T-cell responses via its interaction with ALCAM/CD166 (PubMed:[15048703](http://www.uniprot.org/citations/15048703), PubMed:[15294938](http://www.uniprot.org/citations/15294938), PubMed:[16352806](http://www.uniprot.org/citations/16352806), PubMed:[16914752](http://www.uniprot.org/citations/16914752), PubMed:[24584089](http://www.uniprot.org/citations/24584089), PubMed:[24945728](http://www.uniprot.org/citations/24945728)). Contributes to signaling cascades triggered by activation of the TCR/CD3 complex (PubMed:[24584089](http://www.uniprot.org/citations/24584089))

target="_blank">>24584089). Functions as a costimulatory molecule; promotes T-cell activation and proliferation (PubMed:15294938, PubMed:16352806, PubMed:16914752). Contributions to the formation and maturation of the immunological synapse (PubMed:15294938, PubMed:16352806). Functions as a calcium- dependent pattern receptor that binds and aggregates both Gram-positive and Gram-negative bacteria. Binds both lipopolysaccharide (LPS) from Gram-negative bacteria and lipoteichoic acid from Gram-positive bacteria (PubMed:17601777). LPS binding leads to the activation of signaling cascades and down-stream MAP kinases (PubMed:17601777). Mediates activation of the inflammatory response and the secretion of pro-inflammatory cytokines in response to LPS (PubMed:17601777).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Note=Detected at the immunological synapse, i.e, at the contact zone between antigen-presenting dendritic cells and T-cells (PubMed:15294938, PubMed:16352806). Colocalizes with the TCR/CD3 complex at the immunological synapse (PubMed:15294938)

Tissue Location

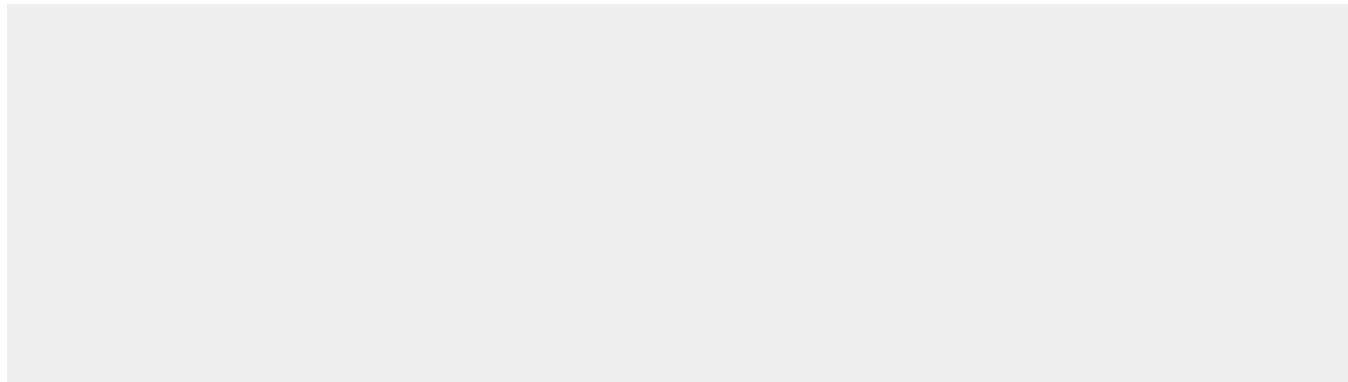
Detected on thymocytes (PubMed:15294938). Detected on peripheral blood T-cells (PubMed:15048703, PubMed:16352806) Detected on natural killer (NK) cells (PubMed:16352806). Soluble CD6 is detected in blood serum (at protein level) (PubMed:17601777). Detected in spleen, thymus, appendix, lymph node and peripheral blood leukocytes (PubMed:9013954). Expressed by thymocytes, mature T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain

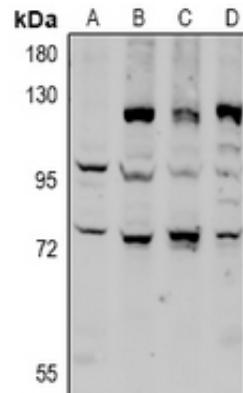
Anti-CD6 Antibody - Protocols

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](#)

Anti-CD6 Antibody - Images





Western blot analysis of CD6 expression in Jurkat (A), MCF7 (B), H9C2 (C), AML12 (D) whole cell lysates.

Anti-CD6 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CD6. The exact sequence is proprietary.