

CD6 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14946**Specification**

CD6 antibody - C-terminal region - Product Information

Application	WB
Primary Accession	P30203
Other Accession	NM_006725 , NP_006716
Reactivity	Human, Rat, Rabbit, Bovine, Dog
Predicted	Human, Rabbit, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	73kDa KDa

CD6 antibody - C-terminal region - Additional Information**Gene ID 923**Alias Symbol **FLJ44171, TP120****Other Names**

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

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-CD6 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

CD6 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CD6 antibody - C-terminal region - 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, PubMed: 15294938, PubMed: 16352806, PubMed: 16914752, PubMed: 24584089, PubMed: 24945728). Contributes to signaling cascades triggered by activation of the TCR/CD3 complex (PubMed: 24584089).

target="_blank">24584089). Functions as a costimulatory molecule; promotes T-cell activation and proliferation (PubMed:15294938, PubMed:16352806, PubMed:16914752). Contributes 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

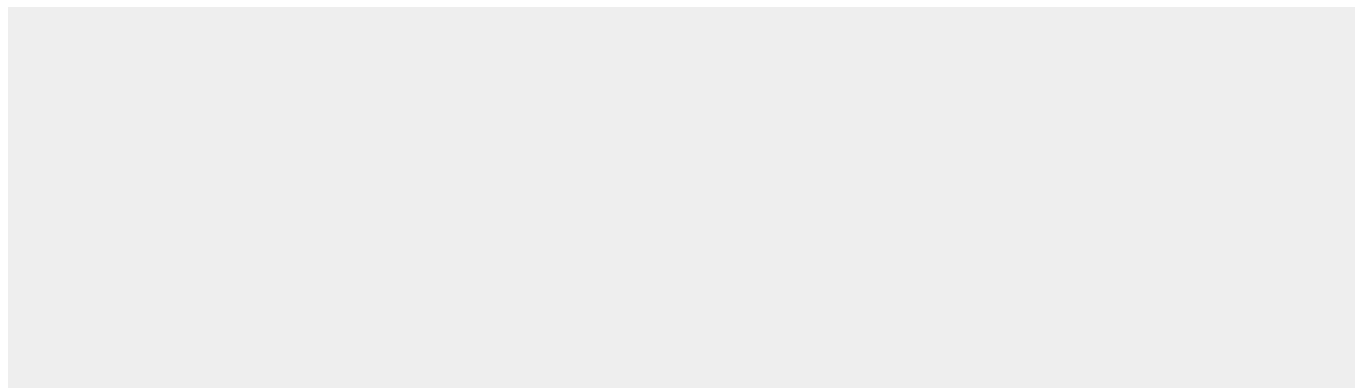
Detected on thymocytes (PubMed:15294938). Detected on peripheral blood T-cells (PubMed:15048703, PubMed:16352806) Detected on natural killer (NK) cells (PubMed:16352806). Soluble CD6 is detected in blood serum (at protein level) (PubMed:17601777). Detected in spleen, thymus, appendix, lymph node and 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

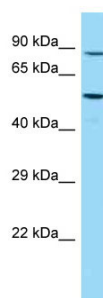
CD6 antibody - C-terminal region - Protocols

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](#)

CD6 antibody - C-terminal region - Images





WB Suggested Anti-CD6 Antibody Titration: 1.0 µg/ml
Positive Control: HCT15 Whole Cell

CD6 antibody - C-terminal region - References

Bowen M.A., et al. J. Immunol. 158:1149-1156(1997).
Taylor T.D., et al. Nature 440:497-500(2006).
Aruffo A., et al. J. Exp. Med. 174:949-952(1991).
Castro M.A., et al. J. Immunol. 178:4351-4361(2007).
Swack J.A., et al. J. Biol. Chem. 266:7137-7143(1991).