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CD6 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14946

Product Information

Application	WB
Primary Accession	P30203
Other Accession	NM_006725, NP_006716
Reactivity	Human, Rat, Rabbit, Dog, Bovine
Predicted	Human, Rabbit, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71801

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.

Protein Information

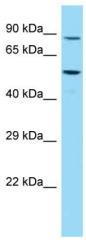
Name	CD6 (HGNC:1691)
Function	Cell adhesion molecule that mediates cell-cell contacts and regulates T-cell responses via its interaction with ALCAM/CD166 (PubMed:15048703, PubMed:15294938, PubMed:16352806, PubMed:16914752, PubMed:24584089, PubMed:24945728). Contributes to signaling cascades triggered by activation of the TCR/CD3 complex (PubMed:24584089). 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

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).

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.