

CD6 Polyclonal Antibody

Catalog # AP73760

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P30203
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71801

Additional Information

Gene ID	923
Other Names	CD6; T-cell differentiation antigen CD6; T12; TP120; CD6
Dilution	WB--Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications. IHC-P--Western Blot: 1/500 - 1/2000. IHC-p: 1:100-1:300. ELISA: 1/10000. Not yet tested in other applications. IF--1:50~200 ICC--N/A E--N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

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)

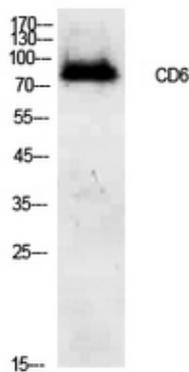
Tissue Location

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

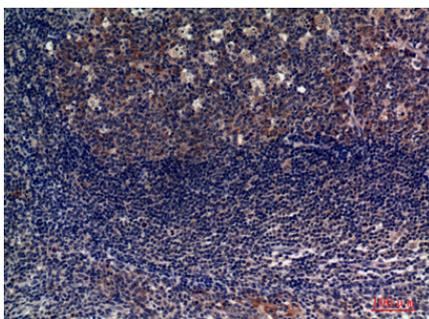
Background

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:[24945728](#), PubMed:[24584089](#)). Contributes to signaling cascades triggered by activation of the TCR/CD3 complex (PubMed:[24584089](#)). Functions as 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 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](#)).

Images



Western Blot analysis of 293 cells using CD6 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human-tonsils, antibody was diluted at 1:100

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