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CD6 Antibody (clone UMCD6/3F7B5)

Mouse Monoclonal Antibody
Catalog # ALS17228

Specification

CD6 Antibody (clone UMCD6/3F7B5) - Product Information

Application	**IHC-P, FC**
Primary Accession	P30203
Other Accession	923
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1,k**
Calculated MW	**71801**

CD6 Antibody (clone UMCD6/3F7B5) - Additional Information

Gene ID 923

Other Names
CD6, CD6 molecule, T12, TP120, CD6 antigen

Target/Specificity
CD6 molecules of approximately 130 kd.

Reconstitution & Storage
50 mM sodium phosphate, pH 7.5, 100 mM potassium chloride, 150 mM sodium chloride, 0.5 mg/ml Gentamicin sulfate. Store at +4°C. DO NOT FREEZE.

Precautions
CD6 Antibody (clone UMCD6/3F7B5) is for research use only and not for use in diagnostic or therapeutic procedures.

CD6 Antibody (clone UMCD6/3F7B5) - 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:24945728, PubMed:24584089). 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)

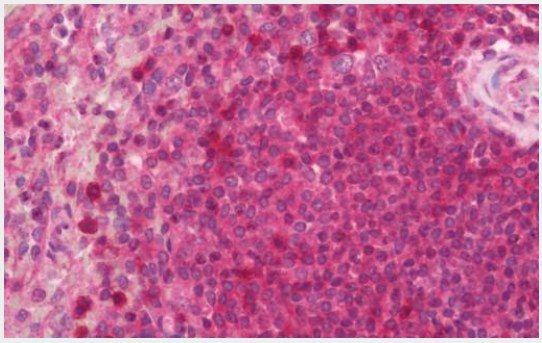
Tissue Location
Detected on thymocytes (PubMed:15294938). Detected on peripheral blood T-cells (PubMed:15048703, PubMed:16352806) Detected on natural killer (NK) cells (PubMed:16352806). Soluble CD6 is detected in blood serum (at protein level) (PubMed:17601777). Detected in spleen, thymus, appendix,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

CD6 Antibody (clone UMCD6/3F7B5) - Protocols

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

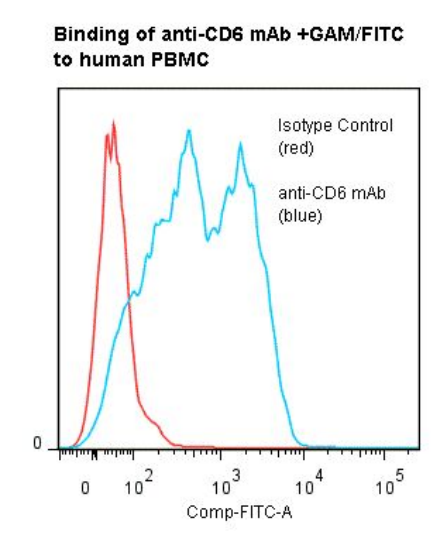
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD6 Antibody (clone UMCD6/3F7B5) - Images



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Human Spleen: Formalin-Fixed, Paraffin-Embedded (FFPE)



Flow cytometry of CD6 antibody

CD6 Antibody (clone UMCD6/3F7B5) - Background

Involved in cell adhesion. Binds to CD166.

CD6 Antibody (clone UMCD6/3F7B5) - 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).