

CD6 Antibody (clone UMCD6/3F7B5, Azide-free)
Mouse Monoclonal Antibody
Catalog # ALS16448**Specification****CD6 Antibody (clone UMCD6/3F7B5, Azide-free) - Product Information**

Application	IHC
Primary Accession	P30203
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	72kDa kDa

CD6 Antibody (clone UMCD6/3F7B5, Azide-free) - Additional Information**Gene ID** 923**Other Names**

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

Target/Specificity

CD6 molecules of approximately 130 kd.

Reconstitution & Storage

Store at +4°C. Do not freeze. Open under aseptic conditions.

Precautions

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

CD6 Antibody (clone UMCD6/3F7B5, Azide-free) - 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: [24945728](http://www.uniprot.org/citations/24945728), PubMed: [24584089](http://www.uniprot.org/citations/24584089)). Contributes to signaling cascades triggered by activation of the TCR/CD3 complex (PubMed: [24584089](http://www.uniprot.org/citations/24584089)). Functions as a costimulatory molecule; promotes T-cell activation and proliferation (PubMed: [15294938](http://www.uniprot.org/citations/15294938), PubMed: [16352806](http://www.uniprot.org/citations/16352806), PubMed: [16914752](http://www.uniprot.org/citations/16914752)).

target="_blank">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

Volume

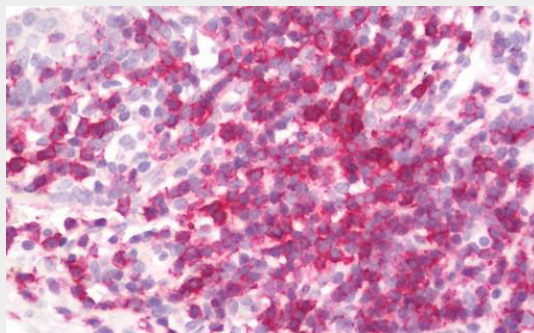
50 µl

CD6 Antibody (clone UMCD6/3F7B5, Azide-free) - 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 (clone UMCD6/3F7B5, Azide-free) - Images



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

CD6 Antibody (clone UMCD6/3F7B5, Azide-free) - Background

Involved in cell adhesion. Binds to CD166.

CD6 Antibody (clone UMCD6/3F7B5, Azide-free) - 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).