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CD6 Antibody (clone MEM-98)

Mouse Monoclonal Antibody
Catalog # ALS11969

Specification

CD6 Antibody (clone MEM-98) - Product Information

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

CD6 Antibody (clone MEM-98) - Additional Information

Gene ID 923

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

Target/Specificity
Human CD6 antigen purified by immunoaffinity chromatography from HBP-ALL cells followed by preparative SDS-PAGE of non-boiled non-reduced sample (excised piece of gel corresponding to the 100 kD zone).

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
CD6 Antibody (clone MEM-98) is for research use only and not for use in diagnostic or therapeutic procedures.

CD6 Antibody (clone MEM-98) - 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:<a href="http://www.uniprot.org/citations/15294938"

target="_blank">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

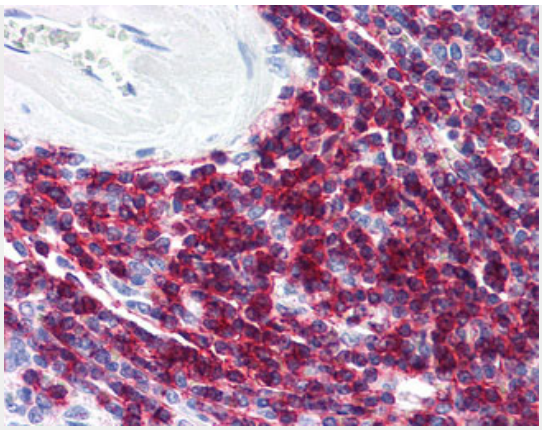
CD6 Antibody (clone MEM-98) - Protocols

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 MEM-98) - Images

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Anti-CD6 antibody IHC of human spleen.

CD6 Antibody (clone MEM-98) - Background

Involved in cell adhesion. Binds to CD166.

CD6 Antibody (clone MEM-98) - 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).