

CD6 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9482c**Specification****CD6 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [P30203](#)**CD6 Antibody (Center) Blocking Peptide - Additional Information**

Gene ID 923

Other Names

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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CD6 Antibody (Center) Blocking Peptide - Protein Information

Name CD6

FunctionCell adhesion molecule that mediates cell-cell contacts and regulates T-cell responses via its interaction with ALCAM/CD166 (PubMed: <http://www.uniprot.org/citations/15048703> target="_blank">15048703, PubMed: <http://www.uniprot.org/citations/15294938> target="_blank">15294938, PubMed: <http://www.uniprot.org/ci>**CD6 Antibody (Center) Blocking Peptide - Background**

CD6 is a monomeric 105- or 130-kD membrane glycoprotein that is involved in T-cell activation. The size difference between the 2 CD6 forms is due to differences in phosphorylation (Robinson et al., 1995 [PubMed 7589069]).

CD6 Antibody (Center) Blocking Peptide - References

??avila, S., et al. Genes Immun. (2010) In press :??e Jager, P.L., et al. Lancet Neurol 8(12):1111-1119(2009)??ohnson, B.A., et al. Genes Immun. (2009) In press :??e Jager, P.L., et al. Nat. Genet. 41(7):776-782(2009)??lonso, R., et al. Hybridoma (Larchmt) 27(4):291-301(2008)

tations/16352806"
target="_blank">16352806,
PubMed:<a href="http://www.uniprot.org/ci
tations/16914752"
target="_blank">16914752,
PubMed:<a href="http://www.uniprot.org/ci
tations/24945728"
target="_blank">24945728,
PubMed:<a href="http://www.uniprot.org/ci
tations/24584089"
target="_blank">24584089).
Contributes to signaling cascades triggered
by activation of the TCR/CD3 complex
(PubMed:<a href="http://www.uniprot.org/c
itations/24584089"
target="_blank">24584089).
Functions as costimulatory molecule;
promotes T-cell activation and proliferation
(PubMed:<a href="http://www.uniprot.org/c
itations/15294938"
target="_blank">15294938,
PubMed:<a href="http://www.uniprot.org/ci
tations/16352806"
target="_blank">16352806,
PubMed:<a href="http://www.uniprot.org/ci
tations/16914752"
target="_blank">16914752).
Contributes to the formation and
maturation of the immunological synapse
(PubMed:<a href="http://www.uniprot.org/c
itations/15294938"
target="_blank">15294938,
PubMed:<a href="http://www.uniprot.org/ci
tations/16352806"
target="_blank">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:<a href="http://www.uniprot.org/c
itations/17601777"
target="_blank">17601777). LPS
binding leads to the activation of signaling
cascades and down-stream MAP kinases
(PubMed:<a href="http://www.uniprot.org/c
itations/17601777"
target="_blank">17601777). Mediates
activation of the inflammatory response
and the secretion of pro-inflammatory
cytokines in response to LPS (PubMed:<a hr
ef="http://www.uniprot.org/citations/17601
777" target="_blank">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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)