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CD48 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8664b

Specification

CD48 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P09326

CD48 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 962

Other Names
CD48 antigen, B-lymphocyte activation marker BLAST-1, BCM1 surface antigen, Leukocyte antigen MEM-102, SLAM family member 2, SLAMF2, Signaling lymphocytic activation molecule 2, TCT1, CD48, CD48, BCM1, BLAST1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8664b was selected from the C-term region of human CD48. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CD48 Antibody (C-term) Blocking Peptide - Protein Information

Name CD48

Synonyms BCM1, BLAST1

Function
Glycosylphosphatidylinositol (GPI)-anchored cell surface glycoprotein that interacts via its N-terminal immunoglobulin domain with cell surface receptors including 2B4/CD244 or CD2 to regulate immune cell function and activation (PubMed:27249817, PubMed:12007789). Participates in T-cell signaling transduction by associating with CD2 and efficiently bringing the Src family protein kinase LCK and LAT to the TCR/CD3 complex (PubMed:19494291). In turn,

promotes LCK phosphorylation and subsequent activation (PubMed:12007789). Induces the phosphorylation of the cytoplasmic immunoreceptortyrosine switch motifs (ITSMs) of CD244 initiating a series of signaling events that leads to the generation of the immunological synapse and the directed release of cytolytic granules containing perforin and granzymes by T-lymphocytes and NK-cells (PubMed:9841922, PubMed:27249817).

Cellular Location
Cell membrane; Lipid-anchor, GPI-anchor. Secreted

Tissue Location
Widely expressed on all hematopoietic cells.

CD48 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CD48 Antibody (C-term) Blocking Peptide - Images

CD48 Antibody (C-term) Blocking Peptide - Background

BLAST1 is the designation used for an activation-associated cell surface glycoprotein of 40 to 45 kD expressed primarily in mitogen-stimulated human lymphocytes. The protein sequence predicted by the cDNA encoding BLAST1 indicates that BLAST1 is a member of the immunoglobulin supergene family. Yokoyama (1991) identified the BLAST1 activation/adhesion molecule as CD48.

CD48 Antibody (C-term) Blocking Peptide - References

Ramos-Lopez,E., et.al., Tissue Antigens 68 (2), 147-152 (2006)Khan,N.A., et.al., Cell. Microbiol. 9 (1), 169-178 (2007)