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CD19 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP20806c

Specification

CD19 Blocking Peptide (C-term) - Product Information

Primary Accession P15391

CD19 Blocking Peptide (C-term) - Additional Information

Gene ID 930

Other Names
B-lymphocyte antigen CD19, B-lymphocyte surface antigen B4, Differentiation antigen CD19, T-cell surface antigen Leu-12, CD19, CD19

Target/Specificity
The synthetic peptide sequence is selected from aa 517-531 of HUMAN CD19

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.

CD19 Blocking Peptide (C-term) - Protein Information

Name CD19

Function
Functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling

CD19 Blocking Peptide (C-term) - Background

Assembles with the antigen receptor of B-lymphocytes in order to decrease the threshold for antigen receptor-dependent stimulation.

CD19 Blocking Peptide (C-term) - References

Stamenkovic I.,et al.J. Exp. Med. 168:1205-1210(1988).
Tedder T.F.,et al.J. Immunol. 143:712-717(1989).
Kozmik Z.,et al.Mol. Cell. Biol. 12:2662-2672(1992).
Zhou L.J.,et al.Immunogenetics 35:102-111(1992).
Kuroki K.,et al.Genes Immun. 3:S21-S30(2002).

pathways and for triggering B-cell responses to antigens (PubMed:2463100, PubMed:1373518, PubMed:16672701). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:9382888, PubMed:9317126, PubMed:12387743, PubMed:16672701). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:9317126). Required for normal differentiation of B-1 cells (By similarity). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:2463100, PubMed:1373518). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:9317126, PubMed:12387743, PubMed:16672701).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Membrane raft {ECO:0000250|UniProtKB:P25918}; Single-pass type I membrane protein

{ECO:0000250|UniProtKB:P25918}

Tissue Location
Detected on marginal zone and germinal center B cells in lymph nodes (PubMed:2463100). Detected on blood B cells (at protein level) (PubMed:2463100, PubMed:16672701)

CD19 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides