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CTLA4 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9453b

Specification

CTLA4 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P16410

CTLA4 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1493

Other Names
Cytotoxic T-lymphocyte protein 4, Cytotoxic T-lymphocyte-associated antigen 4, CTLA-4, CD152, CTLA4, CD152

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.

CTLA4 Antibody (C-term) Blocking Peptide - Protein Information

Name CTLA4

Synonyms CD152

Function
Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate stimulatory coreceptor CD28.

CTLA4 Antibody (C-term) Blocking Peptide - Background

CTLA4 is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. The membrane-bound isoform functions as a homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer.

CTLA4 Antibody (C-term) Blocking Peptide - References

Mosbruger, T.L., et al. J. Infect. Dis. 201(9):1371-1380(2010)Zhao, S.X., et al. PLoS ONE 5 (3), E9821 (2010) Oaks, M.K., et al. Cell. Immunol. 201(2):144-153(2000)Chikuma, S., et al. J. Cell. Biochem. 78(2):241-250(2000)Magistrelli, G., et al. Eur. J. Immunol. 29(11):3596-3602(1999)

Cellular Location
Cell membrane; Single-pass type I membrane protein. Note=Exists primarily an intracellular antigen whose surface expression is tightly regulated by restricted trafficking to the cell surface and rapid internalisation;

Tissue Location
Widely expressed with highest levels in lymphoid tissues. Detected in activated T-cells where expression levels are 30- to 50-fold less than CD28, the stimulatory coreceptor, on the cell surface following activation.

CTLA4 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides