



## CTLA4 Antibody (N-term) Blocking peptide

Synthetic peptide Catalog # BP10465a

## **Specification**

CTLA4 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Other Accession <u>P16410</u> <u>NP\_005205.2</u>, NP\_001032720.1

CTLA4 Antibody (N-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 (N-term) Blocking peptide - Protein Information

Name CTLA4

Synonyms CD152

## Function

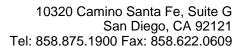
Inhibitory receptor acting as a major negative regulator of T-cell responses. The affinity of CTLA4 for its natural B7 family ligands, CD80 and CD86, is considerably stronger than the affinity of their cognate

# CTLA4 Antibody (N-term) Blocking peptide - Background

CTLA4 is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to Tcells. The protein contains a V domain, a transmembrane domain, anda cytoplasmic tail. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. Themembrane-bound isoform functions as a homodimer interconnected by adjsulfide bond. while the soluble isoform functions as a monomer. Mutations in this gene have been associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiacdisease, systemic lupus erythematosus, thyroid-associatedorbitopathy, and other autoimmune diseases.

## CTLA4 Antibody (N-term) Blocking peptide - References

Liu, Y., et al. Hum. Immunol. 71(11):1141-1146(2010)Andersen, M.K., et al. Diabetes Care 33(9):2062-2064(2010)Azarpira, N., et al. Exp Clin Transplant 8(3):210-213(2010)Liu, G., et al. Nan Fang Yi Ke Da Xue Xue Bao 30(8):1838-1840(2010)Oaks, M.K., et al. Cell. Immunol. 201(2):144-153(2000)





stimulatory coreceptor CD28.

## **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 (N-term) Blocking peptide - Protocols

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

• Blocking Peptides