

CTLA4 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10465a**Specification****CTLA4 Antibody (N-term) Blocking peptide -
Product Information**

Primary Accession [P16410](#)
Other Accession [NP_005205.2](#),
[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 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. Mutations in this gene have been
associated with insulin-dependent diabetes
mellitus, Graves disease, Hashimoto
thyroiditis, celiac disease, systemic lupus
erythematosus, thyroid-associated orbitopathy,
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](#)