

**Anti-CTLA4 Picoband Antibody**  
**Catalog # ABO12791****Specification**

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**Anti-CTLA4 Picoband Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">P09793</a>
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Cytotoxic T-lymphocyte protein 4(Ctla4) detection. Tested with WB, IHC-P, ELISA in Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-CTLA4 Picoband Antibody - Additional Information**

**Gene ID** 12477

**Other Names**

Cytotoxic T-lymphocyte protein 4, Cytotoxic T-lymphocyte-associated antigen 4, CTLA-4, CD152, Ctla4, Cd152

**Calculated MW**

24993 MW KDa

**Application Details**

ELISA , 0.1-0.5 µg/ml, Mouse, <br> Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat<br> Western blot, 0.1-0.5 µg/ml, Mouse<br>

**Subcellular Localization**

Cell membrane ; Single-pass type I membrane protein .

**Tissue Specificity**

Widely expressed with highest levels in lymphoid tissues. .

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

E. coli-derived mouse CTLA4 recombinant protein (Position: E36-D161). Mouse CTLA4 shares 67.5% amino acid (aa) sequence identity with human CTLA4.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins.

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-CTLA4 Picoband Antibody - Protein Information**

**Name** Ctlα4

**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.

**Cellular Location**

Cell membrane {ECO:0000250|UniProtKB:P16410}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P16410} Note=Exists primarily an intracellular antigen whose surface expression is tightly regulated by restricted trafficking to the cell surface and rapid internalization. {ECO:0000250|UniProtKB:P16410}

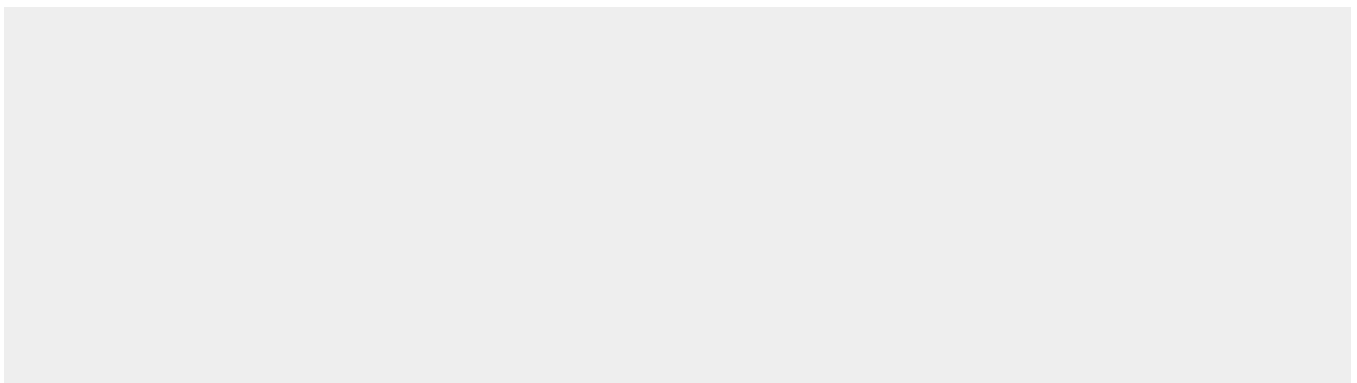
**Tissue Location**

Widely expressed with highest levels in lymphoid tissues.

**Anti-CTLA4 Picoband Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-CTLA4 Picoband Antibody - Images**

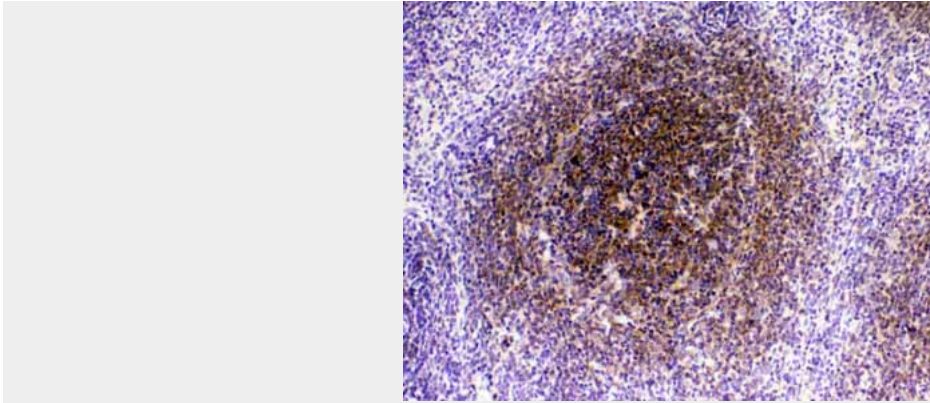


Figure 4. IHC analysis of CTLA4 using anti-CTLA4 antibody (AB012791).

#### **Anti-CTLA4 Picoband Antibody - Background**

CTLA-4 (Cytotoxic T-Lymphocyte Antigen 4), also known as CD152, is a protein receptor that down regulates the immune system. It is a member of the immunoglobulin superfamily, which is expressed on the surface of Helper T cells and transmits an inhibitory signal to T cells. CTLA4 is similar to the T-cell co-stimulatory protein, CD28, and both molecules bind to CD80 and CD86, also called B7-1 and B7-2 respectively, on antigen-presenting cells. CTLA4 transmits an inhibitory signal to T cells, whereas CD28 transmits a stimulatory signal. Blockade of CTLA4 expression in vitro augmented HIV-specific CD4-positive T-cell function.