

Rabbit CTLA4 Polyclonal Antibody | anti-CTLA4 antibody

Anti-CTLA4 Picoband Antibody

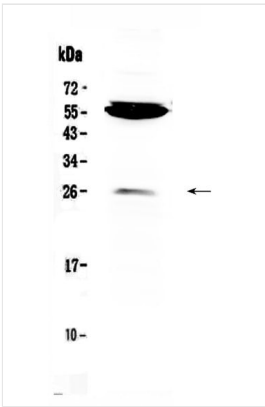
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA124542	Rabbit	Mouse, Rat No cross reactivity with other proteins.	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

CTLA4; Polyclonal Antibody; Anti-CTLA4 Picoband Antibody; Cytotoxic T-lymphocyte protein 4; Cytotoxic T-lymphocyte-associated antigen 4; CTLA-4; CD152; Ctl4; Cd152; anti-CTLA4 antibody

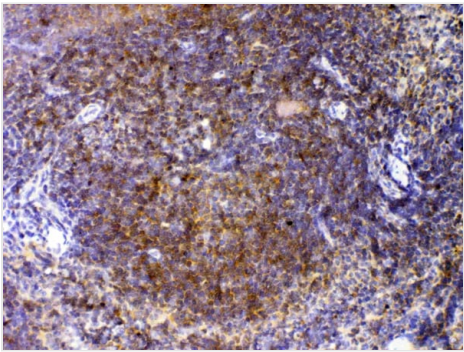
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat No cross reactivity with other proteins.
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified
Form/Format	Lyophilized
Concentration	Add 0.2ml of distilled water will yield a concentration of 500ug/ml. (varies by lot)
Sequence Length	223
Applicable Applications for anti-CTLA4 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Immunogen	E Coli-derived mouse CTLA4 recombinant protein (Position: E36-D161). Mouse CTLA4 shares 67.5% amino acid (aa) sequence identity with human CTLA4.
Subcellular Localization	Cell membrane; Single-pass type I membrane protein.
Tissue Specificity	Widely expressed with highest levels in lymphoid tissues.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



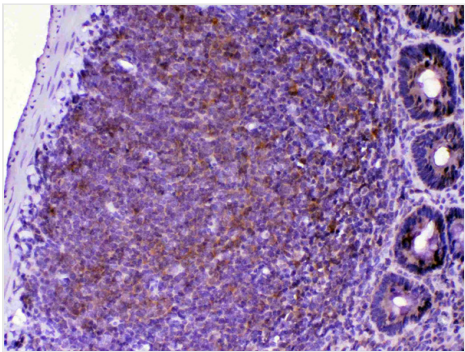
WB (Western Blot)

Figure 1. Western blot analysis of CTLA4 using anti-CTLA4 antibody (AAA124542). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse NIH3T3 whole Cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CTLA4 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CTLA4 at approximately 25KD. The expected band size for CTLA4 is at 25KD.



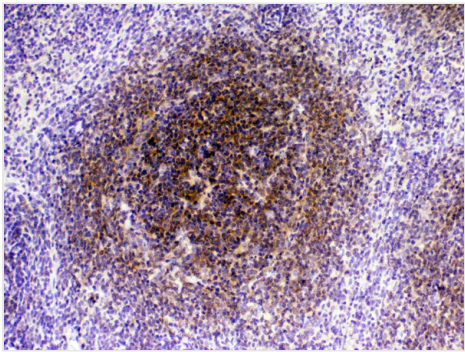
IHC (Immunohistochemistry)

Figure 2. IHC analysis of CTLA4 using anti-CTLA4 antibody (AAA124542). CTLA4 was detected in paraffin-embedded section of mouse spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CTLA4 Antibody (AAA124542) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of CTLA4 using anti-CTLA4 antibody (AAA124542). CTLA4 was detected in paraffin-embedded section of rat lymphaden tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CTLA4 Antibody (AAA124542) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of CTLA4 using anti-CTLA4 antibody (AAA124542). CTLA4 was detected in paraffin-embedded section of rat spleen tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CTLA4 Antibody (AAA124542) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-CTLA4 antibody	Description: 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. Protein 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 (By similarity).
Product Categories/Family for anti-CTLA4 antibody	Immunology; Adaptive Immunity; T Cells; cytotoxic cells; Immunology; NON-CD; Immune System Diseases; Autoimmune; Stem Cells; Hematopoietic Progenitors; Lymphoid; T Lymphocytic Lineage; Regulatory T Cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	31981847
NCBI GeneID	12477
NCBI Accession #	NP_033973.2
NCBI GenBank Nucleotide #	NM_009843.4
UniProt Accession #	P09793; Q9QZZ7
Molecular Weight	24993 MW
NCBI Official Full Name	cytotoxic T-lymphocyte protein 4 isoform 1
NCBI Official Synonym Full Names	cytotoxic T-lymphocyte-associated protein 4
NCBI Official Symbol	Ctla4
NCBI Official Synonym Symbols	Cd152; Ly-56; Ctla-4
NCBI Protein Information	cytotoxic T-lymphocyte protein 4
UniProt Protein Name	Cytotoxic T-lymphocyte protein 4
UniProt Gene Name	Ctla4
UniProt Synonym Gene Names	Cd152; CTLA-4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ctla4-antibody-western-blot-immunohistochemistry-elisa/124542>