

# Human CTLA4 antibody

Catalog Number: ATGA0572

## PRODUCT INFORMATION

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**Catalog number**

ATGA0572

**Clone No.**

AT4C8

**Product type**

Monoclonal Antibody

**UnitProt No.**

P16410

**NCBI Accession No.**

NP\_005205

**Alternative Names**

Cytotoxic T-lymphocyte protein 4 isoform CTLA4-TM precursor, Cytotoxic T-lymphocyte-associated antigen 4, CTLA-4, CD152, CELIAC3, Celiac disease 3, Insulin-dependent diabetes mellitus 12, IDDM12, CD, GSE

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human CTLA4 (36-161aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB

**Usage**

The antibody has been tested by ELISA and Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

CTLA4 (Cytotoxic T-Lymphocyte Antigen 4), also known as CD152, is a protein receptor that downregulates the immune system. CTLA4 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. Mutations in CTLA4 have been associated with insulin-dependent diabetes mellitus, Graves' disease, Hashimoto's thyroiditis, celiac disease and other autoimmune diseases.

### General References

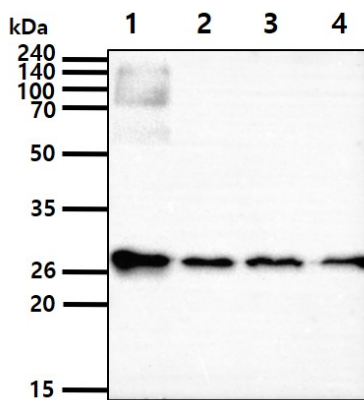
Dariavach. P., et al. (1988) Eur J Immunol 18(12): 1901-1905.

Waterhouse. P., et al. (1995) Science 270(5238): 985-988.

Magistrelli. G., et al. (1999) Eur J Immunol 29(11): 3596-3602.

## DATA

### Western blot analysis (WB)



The tissue and cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human CTLA4 antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: Mouse liver tissue lysate

Lane 2.: TF-1 cell lysate

Lane 3.: HepG2 cell lysate

Lane 4.: WiDr cell lysate