

**CTLA4 Antibody [1E6]**  
Catalog # ASC12127

**Specification**

---

**CTLA4 Antibody [1E6] - Product Information**

Application	WB, IHC-P, IF, ICC, E
Primary Accession	<a href="#">P16410</a>
Other Accession	<a href="#">NP_005205</a>
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	Predicted: 25 kDa
	Observed: 32 kDa KDa

**CTLA4 Antibody [1E6] - Additional Information**

Gene ID	1493
Alias Symbol	CTLA4
<b>Other Names</b>	
CTLA-4 Antibody: CTL4, cytotoxic T-lymphocyte associated protein 4, CD, GSE, GRD4, ALPS5, CD152, IDDM12, CELIAC3	

**Reconstitution & Storage**

CTLA-4 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

CTLA4 Antibody [1E6] is for research use only and not for use in diagnostic or therapeutic procedures.

**CTLA4 Antibody [1E6] - 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 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 internalization

### 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 [1E6] - 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](#)

### CTLA4 Antibody [1E6] - Images

### CTLA4 Antibody [1E6] - Background

The cytotoxic T-lymphocyte-associated protein 4 (CTLA-4), also known as CD152, is a member of the immunoglobulin superfamily that is expressed by activated T cells and transmits an inhibitory signal to T cells (1,2). Both it and the homologous T-cell co-stimulatory protein CD28 bind to CD80 (B7-H1) and CD86 (B7-H2) on antigen-presenting cells (APCs) (3). Mutations in the CTLA-4 gene have been implicated in multiple autoimmune diseases (4). CTLA-4 also functions as an immune checkpoint protein, and anti- CTLA-4 antibodies have been successfully used in the treatment of cancer (5).

### CTLA4 Antibody [1E6] - References

Brunet JF, Denizot F, Luciani MF, et al. A new member of the immunoglobulin superfamily--CTLA-4 . *Nature* 1987; 328:267-70. Walunas TL, Lenschow DJ, Bakker CY, et al. CTLA-4 can function as a negative regulator of T cell activation. *Immunity* 1994; 1:405-13. Harding FA, McArthur JG, Gross JA, et al. CD28-mediated signalling co-stimulates murine T cells and prevents induction of anergy in T-cell clones. *Nature* 1992; 356:607-9. Romo-Tena J, Gomez-Martin D, and Alcocer-Verela J. CTLA-4 and autoimmunity: new insights into the dual regulator of tolerance. *Autoimmun. Rev.* 2013; 12:117.