



## CTLA-4 Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50210

Clone# BP6187

**Predicted Molecular Wt:** 25kDa  
**Species Cross-reactivity:** Human  
**Applications:** IHC-P

**Purity:** ProA affinity purified IgG  
**Form:** Liquid  
**Swissprot ID:** P16410

### Background:

Cytotoxic T lymphocyte-associated antigen-4 (CTLA-4) is a member of the CD28 superfamily and is a negative regulator of T cell-mediated immune responses. CTLA-4 expression is induced on the surface of T cells after CD28 binding and activation, and is constitutively expressed on T-regulatory cells, acting as an immune checkpoint inhibitor, downregulating T cell activity. CTLA-4 primarily inactivates T-cell activity by competing with the CD28 costimulatory molecule. CD28 and CTLA-4 share the identical ligands of CD80 and CD86 on antigenpresenting cells; and thus CTLA-4 competes with CD28 function in T-cell survival, proliferation, and recruitment. In particular, CTLA-4 down-modulates CD4+ helper T-cell activity and enhances Treg immunosuppressive functions. CTLA-4 has been shown to play a role in human diseases. CTLA-4 acts as a physiological brake on the activated immune system in order to maintain immune homeostasis. Several suppressive mechanisms for T-cell functions have been attributed to CTLA-4.

### Subcellular location:

Membrane

### Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

### Immunogen:

Synthetic peptide within Human CTLA-4.

### Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

### Storage conditions:

-25°C to -18°C

### Storage instructions:

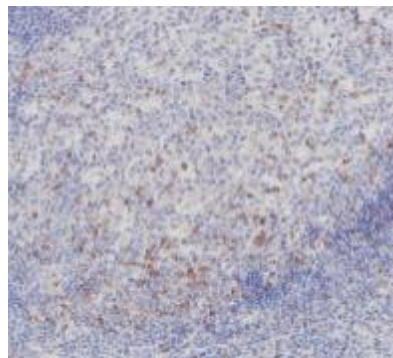
Shipped on blue ice. Upon delivery, aliquot, and store at -25°C to -18°C. Avoid freeze / thaw cycles.

### Recommended Dilutions:


IHC-P: 1:100-1:200

### Background References:

1. Buchbinder EI, McDermott DF. Clinical Therapeutics. 2015; 37:755-63.
2. Scalapino KJ, Daikh DI. Immunol Rev. 2008 Jun;223:143-55.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue labelling CTLA-4 with BP6187. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.