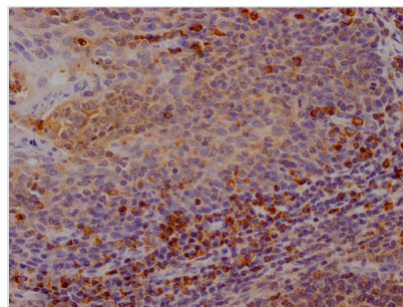




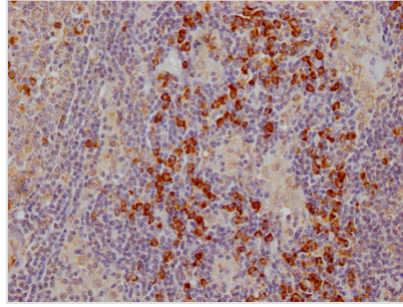
# CTLA4 Antibody

<b>Product Code</b>	CSB-RA213310A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P16410
<b>Immunogen</b>	A synthesized peptide derived from human CTLA4 (CD152)
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
<b>Relevance</b>	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.
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Immunology; Stem cells
<b>Gene Names</b>	CTLA4
<b>Accession NO.</b>	3B10

## Image



IHC image of CSB-RA213310A0HU diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA213310A0HU diluted at 1:100 and staining in paraffin-embedded human lymph node tissue performed on a Leica Bond<sup>TM</sup> system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Description

CTLA4 is not constitutively expressed on T lymphocytes but is induced following T cell activation. CTLA4 is an inhibitory receptor that helps to maintain self-antigen immunity. CTLA4 is upregulated after TCR activation and binds B7 with a higher affinity than T lymphocyte receptor CD28, leading to decreased T cell proliferation and lessened cytokine secretion. CTLA4 inhibition improves a wide range of immunological responses involving helper T cells, while CTLA4 interaction on Treg improves their suppressive activity. CTLA4 is a protein that regulates tumor immune responses and is regarded as a potential target for tumor immunotherapy.

CUSABIO cloned CTLA4 antibody-coding genes into plasma vectors and then transfected these vector clones into mammalian cells using a lipid-based transfection reagent. Following transient expression, the recombinant antibodies against CTLA4 were harvested and characterized. The recombinant CTLA4 antibody was purified by Affinity-chromatography from the culture medium. It can be used to detect CTLA4 protein from Human in the ELISA, IHC.