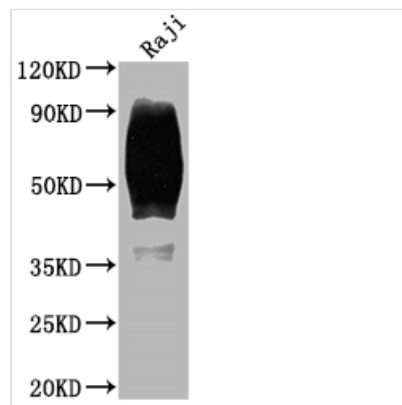




CD80 Antibody

Product Code	CSB-RA246383A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P33681
Immunogen	A synthesized peptide derived from human CD80
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, IP; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IP:1:200-1:1000
Relevance	Involved in the costimulatory signal essential for T-lymphocyte activation. T-cell proliferation and cytokine production is induced by the binding of CD28, binding to CTLA-4 has opposite effects and inhibits T-cell activation.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Immunology; Stem cells
Gene Names	CD80
Accession NO.	3C3

Image



Western Blot

Positive WB detected in: Raji whole cell lysate

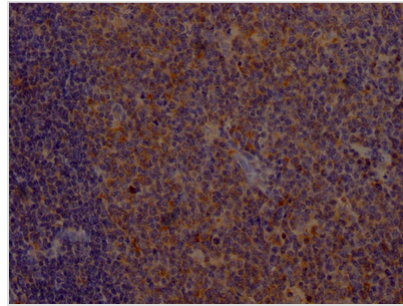
All lanes: CD80 antibody at 1:2000

Secondary

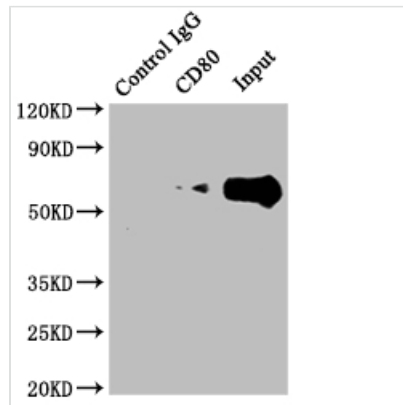
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 34, 30, 19 kDa

Observed band size: 60 kDa



IHC image of CSB-RA246383A0HU diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica Bond™ 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.



Immunoprecipitating CD80 in Raji whole cell lysate

Lane 1: Rabbit control IgG instead of CSB-RA246383A0HU in Raji whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-RA246383A0HU(2µg)+ Raji whole cell lysate(500µg)

Lane 3: Raji whole cell lysate (10µg)

Description

CD80 is a costimulatory molecule that regulates the activity of both normal and malignant B cells and plays a role in T-cell activation. Surface CD80 is expressed transiently on activated B cells, macrophages, and DCs. Most cancer cells have reduced CD80 levels, and the loss of CD80 alone is enough to allow them to evade the immune system's onslaught and induce anergy and death in tumor-infiltrating T cells. In HIV-infected mice corneas, CD80 plays a significant role in increased inflammatory responses.

The production of this recombinant CD80 antibody started with identifying and cloning the genes for antibody expression. After the CD80 antibody was cloned into an expression plasmid, the plasmid could be introduced into the mammalian cell to produce the target recombinant antibody. This recombinant CD80 antibody has been validated in ELISA, WB, IHC, IP.