

Basic Information

Product Name	Anti-B7-1/CD80 Antibody
Gene Name	CD80
Source	Rabbit
Isotype	IgG
Species Reactivity	human, mouse
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg BSA and 50% glycerol.
Immunogen	E.coli-derived mouse Cd80 recombinant protein (Position: D62-K92).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	30-70KD
Dilution Ratios	Western blot(WB): 1:500-2000 Flow cytometry (FCM): 1-3µg/1x10 ⁶ cells (ELISA): 1:100-1000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Cluster of Differentiation 80 (also CD80 and B7-1) is a protein found on activated B cells and monocytes that provides a costimulatory signal necessary for T cell activation and survival. It is the ligand for two different proteins on the T cell surface: CD28 (for autoregulation and intercellular association) and CTLA-4 (for attenuation of regulation and cellular disassociation). CD80 works in tandem with CD86 to prime T cells. The CD80 genes encode B7-1 which are structurally similar members of the immunoglobulin superfamily expressed on a variety of hematopoietic cell types.

Selected Validation Data

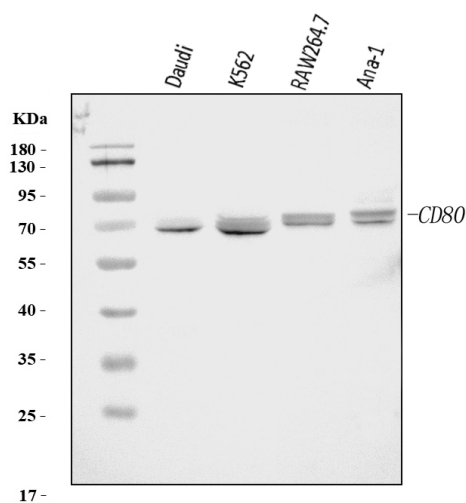


Figure 1. Western blot analysis of anti- Cd80 Antibody (A00196-3).

The sample well of each lane was loaded with 50ug of sample under reducing conditions.

Lane 1: Daudi whole cell lysates,

Lane 2: K562 whole cell lysates,

Lane 3: RAW264.7 whole cell lysates,

Lane 4: Ana-1 whole cell lysates.

Use rabbit anti- Cd80 1:1000, probed with a goat anti-rabbit IgG-

HRP secondary antibody. The signal is developed using an

Enhanced Chemiluminescent detection (ECL) kit (Catalog #

EK1002). A specific band was detected for Cd80 at approximately

70KD. The expected band size for Cd80 is at 33KD.