

## Basic Information

Product Name	Anti-B7-1/CD80 Antibody
Gene Name	CD80
Source	Rabbit
Isotype	IgG
Species Reactivity	human
Tested Application	WB
Contents	500 ug/ml antibody with PBS , 0.02% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , 1 mg BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CD80(57-71aa EELAQTRIWQKEKK).
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	30-70KD
Dilution Ratios	Western blot(WB):1:500-2000

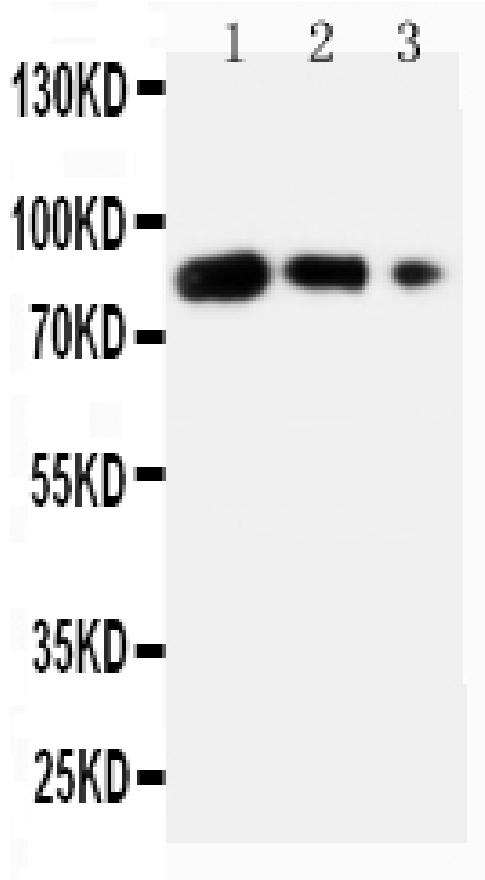
## Storage

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. Reeves et al.(1997) stated that B7-1 and B7-2 provide a costimulatory signal to T cells by interacting with CD28 and CTLA4.

## Selected Validation Data



Lane 1: Recombinant Human CD80 Protein 10ng

Lane 2: Recombinant Human CD80 Protein 5ng

Lane 3: Recombinant Human CD80 Protein 2.5ng