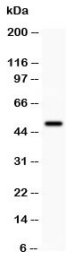
CD80 Antibody (R30434)

Catalog No.	Formulation	Size
R30434	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	O55202
Localization	Cytoplasmic, membranous
Applications	Western blot: 0.5-1ug/ml
Limitations	This CD80 antibody is available for research use only.



Western blot testing of CD80 antibody at 0.5ug/ml with rat thymus lysate; Expected molecular weight: 34-75 kDa depending on the level of glycosylation.

Description

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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the CD80 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of rat CD80 (DAHVSQNFTWEKPPEDPPD) was used as the immunogen for this CD80 antibody.

Storage

After reconstitution, the CD80 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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