# CD80 Antibody (R30434)

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

## Bulk quote request

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| **Availability** | 1-3 business days |
| **Species Reactivity** | Rat |
| **Format** | Antigen affinity purified |
| **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. |
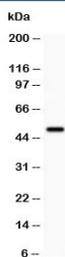
Western blot testing of CD80 antibody at 0.5ug/ml with rat thymus lysate; Expected molecular weight: 34-75 kDa depending on the level of glycosylation.

## 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.