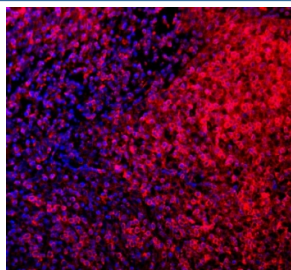


## CD80 Antibody (RQ4248)

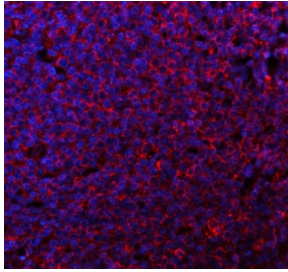
Catalog No.	Formulation	Size
RQ4248	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

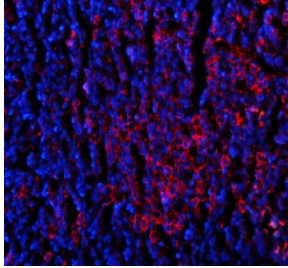
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose
<b>UniProt</b>	P33681
<b>Localization</b>	Membrane
<b>Applications</b>	Immunohistochemistry (FFPE) : 2-5ug/ml Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This CD80 antibody is available for research use only.



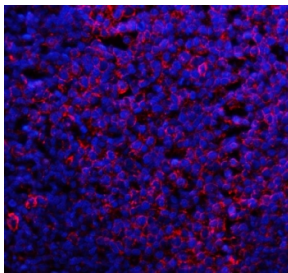
Immunofluorescent staining of FFPE human spleen tissue with CD80 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



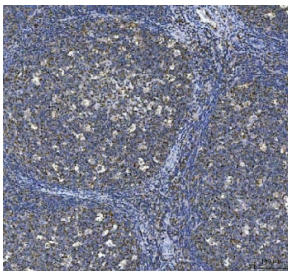
Immunofluorescent staining of FFPE human tonsil tissue with CD80 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



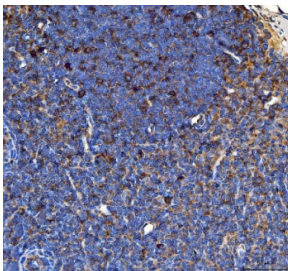
Immunofluorescent staining of FFPE mouse lymph node tissue with CD80 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



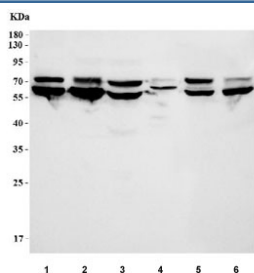
Immunofluorescent staining of FFPE rat lymph node tissue with CD80 antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



IHC testing of FFPE human tonsil tissue with CD80 antibody. Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE rat lymph node tissue with CD80 antibody. Required HIER: steam section in pH8 EDTA buffer for 20 min and allow to cool prior to staining.



Western blot testing of 1) human Daudi, 2) human Raji, 3) human Jurkat, 4) rat spleen, 5) mouse RAW264.7 and 6) mouse ANA-1 cell lysate with CD80 antibody. Predicted molecular weight ~33 kDa but may be observed at higher molecular weights due to 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.

## Application Notes

Optimal dilution of the CD80 antibody should be determined by the researcher.

## Immunogen

A recombinant human protein corresponding to amino acids V35-L244 was used as the immunogen for the CD80 antibody.

## Storage

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