

## Product datasheet for **AM05570PU-N**

### Cd80 Rat Monoclonal Antibody [Clone ID: RM80]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	RM80
Applications:	FC, IHC
Recommended Dilution:	Flow cytometry: 1/10 - 1/25, use 10 µl of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100 µl. Immunohistochemistry on frozen sections. Functional assays.
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	BCL1 cells expressing CD80
Specificity:	This antibody recognises CD80 (B7-1), a 60kD cell surface glycoprotein which is a member of the CD28/B7 family. In mice, CD80 is expressed on monocytes, peritoneal macrophages and dendritic cells. Expression may be significantly increased upon B lymphocytes by LPS and by IL-4.
Formulation:	Phosphate buffered saline, pH 7.4 containing 0.09% sodium azide. State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD80 antigen
Database Link:	<a href="#">Entrez Gene 12519 Mouse Q00609</a>



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**Background:**

CD80 is a member of the Ig superfamily and serves as the ligand for two T cell molecules, CD28 and CTLA4. Interactions between CD28 and CD80 on activated B cells result in enhanced T cell activation. CD80 is rapidly induced on the surface of in vitro activated B cells, Epstein Barr Virus (EBV) transformed B cell lines, Burkitts lymphoma cell lines, freshly isolated follicular B lymphoma cells, T cells, and monocytes. It is also expressed at high levels in dendritic cells. It reacts weakly with a small proportion of non activated normal B cells and with HTLV1 infected T cells. CD80 does not react with peripheral monocytes, resting and activated normal T cells, T cell lines and T cell clones, nor with myelomonocytic cell lines.

**Synonyms:**

CD28LG, CD28LG1, LAB7, BB1, B7.1, B7-1