

## Product datasheet for **AM08053RP-S**

### **Cd86 Rat Monoclonal Antibody [Clone ID: GL1]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	GL1
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> < / = 0.1 µg/10e6 cells. (Ref.1-7)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	LPS-activated mouse B cells. (Ref.1)
Specificity:	This antibody recognises CD86, the B7-2 co-stimulatory molecule and a ligand for CD28 and CD152/CTLA-4.
Formulation:	PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent. Label: PE State: Liquid purified Ig fraction. Label: R-Phycoerythrin
Concentration:	lot specific
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b> This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD86 antigen
Database Link:	<a href="#">Entrez Gene 12524 Mouse P42082</a>



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**Background:**

CD86 (also known as B7-2) is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is expressed at high levels on resting peripheral monocytes and dendritic cells and at very low density on resting B and T lymphocytes. (Ref.1-5) CD86 expression is rapidly upregulated by B-cell specific stimuli with peak expression at 18-42 hours after stimulation. (Ref.1,5) CD86, along with CD80/B7-1, is an important accessory molecule in T cell costimulation via its interaction with CD28 and CD152/CTLA-4. Since CD86 has rapid kinetics of induction, it is believed to be the major CD28 ligand expressed early in the immune response. (Ref.1-9). The monoclonal antibody GL1 blocks mixed lymphocyte reactions and stimulation of T cells by antigen-presenting cells. (Ref.1,3,5)

**Synonyms:**

CD28LG2, Activation B7-2 antigen, B70, BU63, B7.2, FUN-1