

Product datasheet for **AM08053PU-N**

Cd86 Rat Monoclonal Antibody [Clone ID: GL1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	GL1
Applications:	FC, FN, IHC, IP
Recommended Dilution:	Flow Cytometry. (Ref.1-7) Immunoprecipitation. (Ref.1) Immunohistochemistry Frozen Sections. (Ref.6) Functional Assays: <i>In vivo</i> and <i>In vitro</i> blocking assays. (Ref.1,3,5)
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. The monoclonal antibody GL1 blocks mixed lymphocyte reactions and stimulation of T cells by antigen-presenting cells. (Ref.1,3,5)
Formulation:	100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
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:	CD86 antigen
Database Link:	Entrez Gene 12524 Mouse P42082



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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).

Synonyms:

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