

Product datasheet for **AM08052PU-N**

Cd80 Rat Monoclonal Antibody [Clone ID: 1G10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1G10
Applications:	FC, FN, IP
Recommended Dilution:	Flow Cytometry. (Ref.2,7) Immunoprecipitation. (Ref.7) Functional Assays: <i>In vivo</i> and <i>In vitro</i> blocking of ligand binding. (Ref.7)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Specificity:	This antibody recognises CD80/B7-1 (Mr. 45-47 kDa). 1G10 blocks binding of CTLA-4 to CD80, but it does not block stimulation of T cells by natural antigenpresenting cells. (Ref.2,7).
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:	CD80 antigen
Database Link:	Entrez Gene 12519 Mouse Q00609



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Background:

CD80 (B7-1) is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed by dendritic cells, monocytes, and peritoneal macrophages. Expression of CD80 on B cells is upregulated after activation by various means including stimulation by LPS, IL-4, and surface Ig receptor cross linking with peak expression occurring between 48 and 72 hours postactivation. (Ref.1-4) The interaction of CD80/B7-1 with its ligands, CD28 and CD152/CTLA-4, provides a potent costimulatory signal for T cells activated through the CD3/T cell receptor complex. (Ref.5,6)

Synonyms:

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