

## Product datasheet for **AM08084RP-N**

### Cd86 Rat Monoclonal Antibody [Clone ID: 2D10]

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Primary Antibodies  |
| Clone Name:           | 2D10  |
| Applications:         | FC  |
| Recommended Dilution: | <b>Flow Cytometry:</b> ≤ 0.2 µg/10e6 cells.<br>Identification and enumeration of CD86+ cells. (Ref.1,2,4,6,7)   |
| Reactivity:           | Mouse   |
| Host:                 | Rat   |
| Isotype:              | IgG2b   |
| Clonality:            | Monoclonal  |
| Specificity:          | This antibody recognises CD86, the B7-2 costimulatory molecule and a ligand for CD28 and CD152.   |
| Formulation:          | PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent.<br>Label: PE<br>State: Liquid purified Ig fraction.<br>Label: R-Phycoerythrin                      |
| Concentration:        | lot specific  |
| Conjugation:          | PE  |
| Storage:              | Store the antibody undiluted at 2-8°C.<br><b>DO NOT FREEZE!</b><br>This product is photosensitive and should be protected from light.<br>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 B72, 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. CD86 expression is rapidly upregulated by B cell specific stimuli with peak expression at 18 to 42 hours after stimulation. CD86, along with CD80/B71, is an important accessory molecule in T cell costimulation via its interaction with CD28 and CD152/CTLA4. Since CD86 has rapid kinetics of induction, it is believed to be the major CD28 ligand expressed early in the immune response. It is also found on malignant Hodgkin and Reed Sternberg (HRS) cells in Hodgkin's disease. CD86 interacts with HHV8 (KSHV) MIR2 protein.

**Synonyms:**

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