

## Product datasheet for **AM05187AC-N**

### CD28 Mouse Monoclonal Antibody [Clone ID: B-23]

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Clone Name:           | B-23   |
| Applications:         | FC   |
| Recommended Dilution: | Flow Cytometry.<br>Monitoring of activated T cells in peripheral blood.<br>Study of T lymphocyte cytokine function.<br>Study of B cell activation.<br>Study of Cell-adhesion molecules relating T and B lymphocytes. |
| Reactivity:           | Human  |
| Host:                 | Mouse  |
| Isotype:              | IgG1   |
| Clonality:            | Monoclonal   |
| Immunogen:            | CD28=Derived from the hybridization of mouse Sp2/O-Ag14 myeloma cells with spleen cells of BALB/c mice immunized with the HPB-ALL T-cell line.   |
| Specificity:          | This antibody recats with CD28 receptor.   |
| Formulation:          | PBS containing 0.2% protein carrier and 0.08% Sodium Azide as preservative.<br>Label: APC<br>State: Liquid purified IgG fraction.  |
| Concentration:        | lot specific   |
| Conjugation:          | APC  |
| Storage:              | Store the antibody undiluted at 2-8°C.<br><b>Do Not Freeze!</b>  |
| Stability:            | Shelf life: One year from despatch.  |
| Gene Name:            | CD28 molecule  |
| Database Link:        | <a href="#">Entrez Gene 940 Human P10747</a>   |



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| <b>Background:</b> | Anti-human CD28 binds the 44kDa MW cell surface protein on the surface of most T cells. CD28 acts as the ligand for the B7/BB-1 molecule on the surface of activated B cells. B7/BB-1 costimulates T cells through CD28, along with CD2 and CD3. CD28 antigen is a disulfide-linked homodimeric glycoprotein. The CD28 antigen is present on approximately 60%-80% T lymphocytes (95% of CD4 and 50% of CD8 lymphocytes). CD28 regulates the expression of cytokines by T cells, not only IL-2, but also IL-1 alpha and CSF-1, usually synthesized by accessory cells. CD28 functions as a cell adhesion molecule (CAM) for certain T cell subsets. |
| <b>Synonyms:</b>   | TP44  |
| <b>Note:</b>       | <p>Protocol: <b>PBMC:</b><br/>Add 10 ul of MAB/10e6 PBMC in 100 ul PBS.<br/>Mix gently and incubate for 15 minutes at 2-8°C.<br/>Wash twice with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.</p> <p><b>WHOLE BLOOD:</b><br/>Add 10 ul of MAB/100 ul of whole blood.<br/>Mix gently and incubate for 15 minutes at room temperature (20°C).<br/>Lyse the whole blood.<br/>Wash once with PBS and analyze or fix with 0.5% v/v of paraformaldehyde in PBS and analyze.<br/>See instrument manufacturers instructions for Lysed Whole Blood and Immunofluorescence analysis with a flow cytometer or microscope.</p>  |