

Product datasheet for **TA386150**

Cd27 Rabbit Monoclonal Antibody [Clone ID: RM27-3E5]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | RM27-3E5 |
| Applications: | FC, IP, Neutralize |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Isotype: | IgG, kappa |
| Clonality: | Monoclonal |
| Immunogen: | This antibody was raised by immunising mouse with mouse CD27-human IgG1 Fc fusion protein. Isolated popliteal lymph node cells were then fused with P3U1 myeloma cells to produce stable hybridomas. |



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| Specificity: | <p>This antibody is specific for the extracellular domain of murine CD27, a TNF-receptor superfamily member.</p> <p>This antibody recognises murine CD27, as confirmed by flow-cytometry and immunoprecipitation analysis (Sakanishi & Yagita, 2010), a member of the TNF-receptor superfamily. The interaction between CD27 and its ligand CD70, which is recognised by anti-CD70 antibody TAN 1-7 (Ab00816), is crucial to regulation of the survival and differentiation of T cells, B cells and NK cells. As a result, RM27-3E5 modulates multiple immune cell types. The original rat IgG2a version of RM27-3E5 did not deplete T cells, NKT or NK cells, but does enhance the proliferation of anti-CD3-stimulated splenic T cells (Sakanishi & Yagita, 2010). In murine models of melanoma, it promotes the persistence of tumour-specific CD8+ T cells within tumours, and reduces levels of PD-1 expression on CD8+ T cells (Roberts et al, 2010). Additionally, anti-CD27 reduces the proportion of FoxP3+ CD4+ T cells in tumours, and enhances the effector activity of IFNγ-secreting, tumour-infiltrating CD8+ T cells and NK cells (Roberts et al, 2010). Finally, anti-CD27 Ab treatment alters murine splenocyte cytokine production, significantly reducing IL-5 and IFN-γ synthesis, and increasing TNF-α production (Sumi et al, 2008). It also significantly suppresses total serum IgE levels, while significantly increasing IgG1 and IgG2a levels. These immune modulatory properties translate into potent anti-tumour effects in mice. Treatment of established murine melanoma with RM27-3E5 (rat IgG2a) resulted in a significant reduction in lung metastases and subcutaneous tumours, through an IFNγ-dependent mechanism mediated by CD8+ T cells and NK cells (Roberts et al, 2010). In murine models of T cell lymphoma, the tumour-specific CTL response induced by RM27-3E5 (rat IgG2a) promoted almost complete regression of tumours, regardless of CD27 expression on tumour cells (Sakanishi & Yagita, 2010). This antibody has been used to identify CD27-expressing cells through flow-cytometry (Koyanagi et al, 2012).</p> |
| Formulation: | PBS with 0.02% Proclin 300. |
| Concentration: | lot specific |
| Conjugation: | Unconjugated |
| Storage: | Please store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Avoid freeze and thaw cycles. |
| Stability: | 3 years from dispatch. |
| Gene Name: | CD27 antigen |
| Database Link: | Entrez Gene 21940 Mouse P41272 |
| Synonyms: | MGC20393; S152; T14; TNFRSF7; Tp55 |
| Note: | This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques. |