

Product datasheet for **TA386440**

CD137 (TNFRSF9) Mouse Monoclonal Antibody [Clone ID: 4B4-1-1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4B4-1-1
Applications:	BI, ELISA, FC, IHC
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	The original antibody was generated by immunizing BALB/c mice with a fusion protein of human 4-1BB antigen and glutathione s transferase (GST).
Specificity:	This antibody binds to the human 4-1BB, which is expressed on the surface of activated T cells.

The antibody has good binding affinity for Con A-activated T cells and has an immunosuppressive activity towards lymphocyte proliferation in the in vitro mixed lymphocyte reaction. The binding of antibody to surface expressed 4-1BB molecule was assessed using flow cytometry and ELISA was used to check whether the cell culture had binding affinity to 4-1BB (Kim et al., 1995). The interaction of this antibody with CD137 is reported to induce an increase in TNF- α production by monocytes. This antibody competes with mAb M121 for binding to CD137 (PMID: 10607752). This antibody also induces the production of IFN- γ in NK cells in presence of IL-15 (PMID: 20008791). This antibody can be used in blocking assays and staining methods (PMID: 14746806). Humanized versions of this antibody (Hz4B4-1) and (Hz4B4-2) showed a 1.5 fold and 7.3 fold increase in binding affinity for 4-1BB as compared to their parental mouse antibody. Additionally, H4B4 mediated antibody-dependent cellular toxicity of activated human peripheral blood T cells and CEM cells in a dose dependent manner (PMID: 11186149). Humanized version of this antibody is available on request.

Formulation:	PBS with 0.02% Proclin 300.
Concentration:	lot specific
Conjugation:	Unconjugated



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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:	tumor necrosis factor receptor superfamily member 9
Database Link:	Entrez Gene 3604 Human Q07011
Synonyms:	4-1BB; CD137; CDw137; ILA; MGC2172