Monoclonal Antibody to CD137 / 4-1BB
Purified Antibody (0.025 mg)

Clone: 4B4-1
Isotype: Mouse IgG1
Specificity: The mouse monoclonal antibody 4B4-1 recognizes CD137, an approximately 40 kDa type I transmembrane protein of the TNFR family expressed mainly on activated T cells. HLDA VI; WS Code C-7
Regulatory Status: RUO
Immunogen: Recombinant human CD137 ectodomain
Species Reactivity: Human, Non-Human Primates
Application: Flow Cytometry
          Immunoprecipitation
          ELISA
          Functional Application
          inhibition of cytokine production
Purity: > 95% (by SDS-PAGE)
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label

Background: CD137, also known as TNFRSF9 or 4-1BB, is an inducible costimulatory molecule expressed mainly on activated T cells. Its ligand, known as 4-1BBL, is expressed on activated macrophages, mature B cells, hematopoietic stem cells, and myeloid progenitor cells. CD137 signaling leads to maintaining the survival of activated T cells and CD8+ memory T cells, and clonal expansion of T cells, but also to suppressing myelopoiesis and dendritic cell development. Triggered CD137 induces a cytokine release profile regulating peripheral monocyte survival. Soluble forms of CD137 may provide negative control mechanism for some immune responses.
References:


