

Antibodies

Anti-Human CD137 Antibody, Clone 4B4-1

Mouse monoclonal IgG1 antibody against human, monkey CD137, unconjugated



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Catalog #100-1353

100 µg

1 mg/mL

Product Description

This mouse monoclonal antibody (clone 4B4-1) reacts with human and monkey CD137, a type I membrane protein and a member of the tumor necrosis factor (TNF) receptor superfamily. Following activation, it is expressed on multiple immune cells, such as natural killer (NK), T, and dendritic cells. CD137 plays a role in cytokine activation, preventing activation-induced cell death, and it also plays a role in promoting the activity of cytotoxic T cells. As an immune stimulator, CD137 can influence the tumor microenvironment by increasing the cytotoxicity of T and NK cells as well as their ability to infiltrate tumors. For these reasons, CD137 represents a strong candidate for cancer immunotherapy. CD137 deficiency in humans has been hypothesized to inhibit differentiation and function of T cells; CD137-deficient mice have been reported to have impaired T cell cytotoxicity, proliferation, and survival.

Target Antigen Name:	CD137
Alternative Names:	4-1BB, CDw137, ILA, TNFRSF9
Gene ID:	3604
Species Reactivity:	Human, Monkey
Host Species:	Mouse
Clonality:	Monoclonal
Clone:	4B4-1
Isotype:	IgG1, kappa
Immunogen:	Fusion protein of recombinant human 4-1BB ectodomain
Conjugate:	Unconjugated

Applications

Verified: FC

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence-activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IHC-P: Immunohistochemistry (paraffin-embedded); IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	50 mM sodium phosphate, 100 mM potassium chloride, 150 mM sodium chloride, pH 7.5, containing 0.5% gentamicin sulfate
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Stable until expiry date (EXP) on label.
Directions for Use:	For flow cytometry, the suggested use of this antibody is 10 µg/mL per 5 x 10 ⁵ cells in 80 µL. It is recommended that the antibody be titrated for optimal performance for each application.

Related Products

For a complete list of antibodies, including other conjugates, sizes, and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies, or contact us at techsupport@stemcell.com.

References

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