

Datasheet for ABIN2749216

anti-CD137 antibody

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Quantity:	0.1 mg
Target:	CD137 (TNFRSF9)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Application:	ELISA, Flow Cytometry (FACS), Immunoprecipitation (IP)
Product Details	
Immunogen:	Recombinant human CD137 ectodomain
Clone:	4B4-1
Isotype:	IgG1 kappa
Specificity:	The mouse monoclonal antibody 4B4-1 recognizes an extracellular conformational epitope on CD137, an approximately 40 kDa type I transmembrane protein of the TNFR family expressed mainly on activated T cells.
Cross-Reactivity (Details):	Human, Non-Human Primates
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)
Target Details	
Target:	CD137 (TNFRSF9)

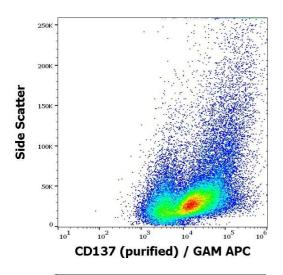
Target Details

Alternative Name:	CD137 / 4-1BB (TNFRSF9 Products)
Background:	TNF receptor superfamily member 9,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.,TNFRSF9, 41BB, 4-1BB, MGC2172
Gene ID:	3604
UniProt:	Q07011
Pathways:	Cancer Immune Checkpoints
Application Details	
Application Notes:	Flow cytometry: Recommended dilution: 1-4 µg/mL
Restrictions:	For Research Use only
Handling	
Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.
Publications	
Product cited in:	Bellarosa, Bressan, Bigioni, Parlani, Maggi, Binaschi: "SAHA/Vorinostat induces the expression
	of the CD137 receptor/ligand system and enhances apoptosis mediated by soluble CD137
	receptor in a human breast cancer cell line." in: International journal of oncology, Vol. 41, Issu
	4, pp. 1486-94, (2013) (PubMed).

Fernández Do Porto, Jurado, Pasquinelli, Alvarez, Aspera, Musella, García: "CD137 differentially regulates innate and adaptive immunity against Mycobacterium tuberculosis." in: **Immunology and cell biology**, Vol. 90, Issue 4, pp. 449-56, (2012) (PubMed).

Chan, Voskens, Lin, Schindler, Azimzadeh, Wang, Taylor, Strome, Schulze: "Epitope mapping of a chimeric CD137 mAb: a necessary step for assessing the biologic relevance of non-human primate models." in: **Journal of molecular recognition: JMR**, Vol. 22, Issue 3, pp. 242-9, (2009) (PubMed).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cell suspension stained using anti-humam CD137 (4B4-1) purified antibody (concentration in sample 4 μ g/mL) GAM APC.

Flow Cytometry

Image 2. Separation of cells stained using anti-humam CD137 (4B4-1) purified antibody (concentration in sample 4 μ g/mL, GAM APC, red-filled) from cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining) of human PHA stimulated peripheral blood mononuclear cell suspension .