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Datasheet for ABIN2800694 anti-CD137 antibody

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Overview

Quantity:	0.1 mg
Target:	CD137 (TNFRSF9)
Reactivity:	Human, Non-Human Primate
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD137 antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Immunoprecipitation (IP), Functional Studies (Func)

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)
Endotoxin Level:	Endotoxin level is less than 0.01 EU/ μ g of the protein, as determined by the LAL test.

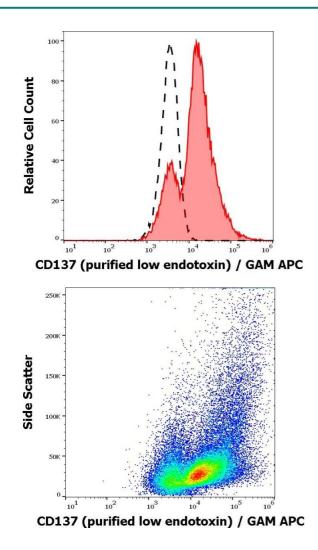
Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN2800694 | 03/05/2024 | Copyright antibodies-online. All rights reserved.

Target Details	
Target:	CD137 (TNFRSF9)
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:	Functional application: Inhibition of cytokine production. 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
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.
Publications	
Product cited in:	Yi, Zhao, Wang, Dai, Hellström, Hellström, Zhang: "Human and mouse CD137 have predominantly different binding CRDs to their respective ligands." in: PLoS ONE , Vol. 9, Issue 1, pp. e86337, (2014) (PubMed).

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN2800694 | 03/05/2024 | Copyright antibodies-online. All rights reserved. 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. Separation of cells stained using anti-humam CD137 (4B4-1) purified antibody (low endotoxin, concentration in sample 4 µg/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.

Flow Cytometry

Image 2. Flow cytometry surface staining pattern of human PHA stimulated peripheral blood mononuclear cell suspension stained using anti-humam CD137 (4B4-1) purified antibody (low endotoxin, concentration in sample 4 µg/mL) GAM APC.

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