

CD137 Rabbit pAb

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Catalog # AP52247

Product Information

Application	WB
Primary Accession	Q07011
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27899
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CD137
Epitope Specificity	101-200/255
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Single-pass type I membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	CD137 exists on the cell surface as a monomer with a molecular mass of 30 kDa and as a dimer of 55 kDa. Human and mouse CD137 share 60% amino acid identity. CD137 (4-1BB), a member of the tumour necrosis factor receptor superfamily, is a type I transmembrane glycoprotein expressed on the cell surface of activated splenic T cells and thymocytes. The functions of CD137 in T lymphocytes include regulating activation, proliferation and apoptosis. CD137 and CD28 are costimulatory molecules of T cell activation. Costimulatory molecules are important in initiating anti-tumor immune responses. CD137 plays an important role in regulating T-cell-dependent immune responses. Expression of CD137 correlates negatively with lymphocyte proliferation and positively with the degree of activation-induced cell death caused by mitogen overstimulation. In monocytes, CD137 induces activation, promotes adherence and prolongs survival.

Additional Information

Gene ID	3604
Other Names	Tumor necrosis factor receptor superfamily member 9, 4-1BB ligand receptor, CDw137, T-cell antigen 4-1BB homolog, T-cell antigen ILA, CD137, TNFRSF9, CD137, ILA
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TNFRSF9
Synonyms	CD137, ILA
Function	Receptor for TNFSF9/4-1BBL. Conveys a signal that enhances CD8(+) T-cell survival, cytotoxicity, and mitochondrial activity, thereby promoting immunity against viruses and tumors (Probable).
Cellular Location	Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed on the surface of activated T-cells.

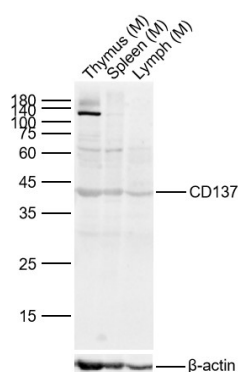
Background

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References

Alderson M.R.,et al.Eur. J. Immunol. 24:2219-2227(1994).
Schwarz H.,et al.Gene 134:295-298(1993).
Schwarz H.,et al.Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.
Zhou Z.,et al.Immunol. Lett. 45:67-73(1995).
Gregory S.G.,et al.Nature 441:315-321(2006).

Images



Sample:
Lane 1: Mouse Thymus Lysates
Lane 2: Mouse Spleen Lysates
Lane 2: Mouse Lymph Lysates

Primary: Anti-CD137 (AP52247) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 25kDa
Observed band size: 42kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.