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Datasheet for ABIN740445 anti-CD137 antibody (AA 101-200)

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Overview

Quantity:	100 µL
Target:	CD137 (TNFRSF9)
Binding Specificity:	AA 101-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD137 antibody is un-conjugated
Application:	ELISA, Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CD137
lsotype:	lgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.
Target Details	
Target:	CD137 (TNFRSF9)
Alternative Name:	CD137 (TNFRSF9 Products)
Background:	Synonyms: ILA, 4-1BB, CD137, CDw137, Tumor necrosis factor receptor superfamily member 9,

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Target Details	
	4-1BB ligand receptor, T-cell antigen 4-1BB homolog, T-cell antigen ILA, TNFRSF9
	Background: Receptor for TNFSF9/4-1BBL. Possibly active during T cell activation.
Gene ID:	3604
UniProt:	Q07011
Pathways:	Cancer Immune Checkpoints
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be
	handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	
Product cited in:	Claycombe, Vomhof-DeKrey, Garcia, Johnson, Uthus, Roemmich et al.: "Decreased beige
	adipocyte number and mitochondrial respiration coincide with increased histone methyl
	transferase (G9a) and reduced FGF21 gene expression in Sprague-Dawley rats fed prenatal low
	" in: The Journal of nutritional biochemistry, Vol. 31, pp. 113-21, (2016) (PubMed).

Daquinag, Tseng, Salameh, Zhang, Amaya-Manzanares, Dadbin, Florez, Xu, Tong, Kolonin: "

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Validation report #101793 for Flow Cytometry (FACS)



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain tissue labeled with Anti-CD137/TNFRSF9 Polyclonal Antibody, Unconjugated (ABIN740445) at 1:600 followed by conjugation to the secondary antibody



NDEPENDEN	Successfully validated (Flow Cytometry (FACS))				
VALIDATION CUSTOMER VALIDATION N° DATE 101793 13/09/17	by Pharmacology Department, Faculty of Medicine, Granada University Report Number: 101793 Date: Sep 13 2017				
Target:	CD137				
Lot Number:	AG05152084				
Method validated:	Flow Cytometry (FACS)				
Positive Control:	rat adipose-derived mesenchymal stem cells				
Negative Control:	cells stained with secondary antibody only				
Notes:	Passed. ABIN740445 specifically recognizes Cd137 in rat adipose-derived mesenchymal stem cells.				
Primary Antibody:	ABIN740445				
Secondary Antibody:	donkey anti-rabbit Alexa Fluor 680 conjugated antibody (ThermoFisher Scientific, A10043, lot 1812322)				
Protocol:	 Grow rat adipose-derived mesenchymal stem cells in DMEM high glucose, GLUTAMAX, pyruvate supplemented (Gibco, 31966021, lot 1774921) supplemented with 10% fetal bovine serum (Gibco, 16000044, lot 1774921) 1% penicillin/streptomycin (Gibco, 15140122, lot 1759446), at 37°C and 5% CO₂ in ml on a flask to 95% confluency. Wash cells with PBS buffer. Detach cells from the flask with trypsin-versene solution (Lonza, H3BE17-161E, lot RB35937) for 3min at 37°C and 5% CO₂. Centrifuge cells for at 400xg for 5min at RT, aspirate the supernatant. Resuspend cells in 1mL of 1% BSA in PBS per 2x10⁶ cells and incubate 20min at RT. Incubate cells with primary rabbit anti-CD137 antibody (antibodies-online, ABIN740445, lot AG05152084) diluted 1:35 in 1% BSA in PBS buffer for 20min on ice. Include a negative control without primary antibody. Wash cells 1x with PBS buffer and centrifuge them for 400xg for 5min at RT. Resuspend cells in 175µl 1% BSA in PBS buffer. Incubate cells with secondary donkey anti-rabbit Alexa Fluor 680 conjugated antibody (ThermoFisher Scientific, A10043, lot 1812322) diluted 1:200 in buffer for 15min in ice. Wash cells 2xwith PBS buffer and centrifuge them for 400xg for 5min at RT. Resuspend the pellet in 500µl PBS buffer. Data acquisition in a BD FACSCanto II flow cytometer, equipped with two laser lines of 488nm and 633nm and two scattered light detectors (FSC and SSC). Detect fluorescence in 				

PMTs with filters suitable for the fluorescence of the fluorophore AF680 (735LP and 780/60BP). Threshold is established in FSC. The data is saved in files in FCS format and analyzed offline with the FACSDiva software (BD).

Experimental Notes:ABIN740445 reveals a specific fluorescence signal in rat adipose-derived mesenchymal stem
cells. This is the first time that flow cytometry is performed in this type of cells using this
antibody. No signal was registered in the negative control cells.

Image for Validation report #101793



Validation image no. 1 for anti-Tumor Necrosis Factor Receptor Superfamily, Member 9 (TNFRSF9) (AA 101-200) antibody (ABIN740445)

Flow cytometric analysis of cells stained with ABIN740445 and an AF680-conjugated secondary antibody (A) or the secondary antibody only (B). The top row illustrates the gating for life cells. The second and third row show dots blots and histograms respectively of the positively stained cell populations.

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