

Product datasheet

Anti-CD137 antibody [EPR23218-111] - BSA and Azide free ab270527

Recombinant RabMAb

5 Images

Overview

Product name	Anti-CD137 antibody [EPR23218-111] - BSA and Azide free
Description	Rabbit monoclonal [EPR23218-111] to CD137 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, IP, Flow Cyt
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: His-tagged mouse CD137 recombinant protein(aa24-187); mouse splenocyte lysate (+/- Con A treatment). ICC/IF: Mouse splenocytes treated with Con A; HEK-293T cells transfected with GFP-tagged CD137 expression vector. Flow cyt: Mouse splenocytes treated with Con A. IP: Mouse splenocyte whole cell lysate (Con A treated).
General notes	<p>ab270527 is the carrier-free version of ab243648.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR23218-111
Isotype	IgG

Applications

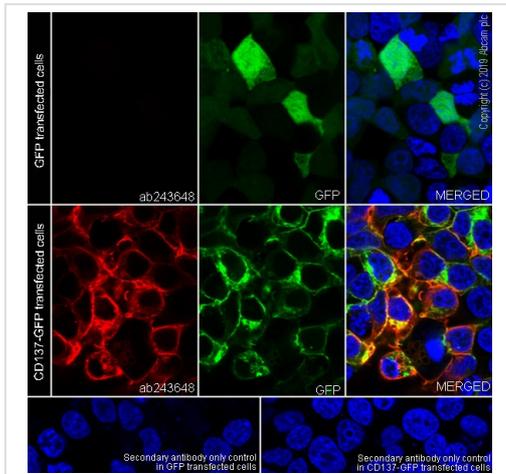
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab270527 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 28 kDa.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

Target

Function	Receptor for TNFSF14/4-1BBL. Possibly active during T cell activation.
Tissue specificity	Expressed on the surface of activated T-cells.
Sequence similarities	Contains 4 TNFR-Cys repeats.
Cellular localization	Membrane.

Images

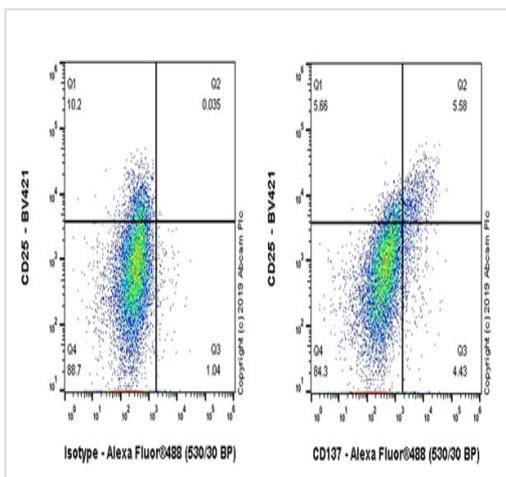


Immunocytochemistry/ Immunofluorescence - Anti-CD137 antibody [EPR23218-111] - BSA and Azide free (ab270527)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HEK-293T cells labelling CD137 with [ab243648](#) at 1/100 dilution, followed by [ab150080](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) antibody at 1/1000 dilution (Red). Confocal image showing cytoplasmic and membranous staining in HEK-293T cells transfected with a GFP-tagged CD137 expression vector - the GFP tag is shown in Green. The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is [ab150080](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab243648](#)).



Flow Cytometry - Anti-CD137 antibody [EPR23218-111] - BSA and Azide free (ab270527)

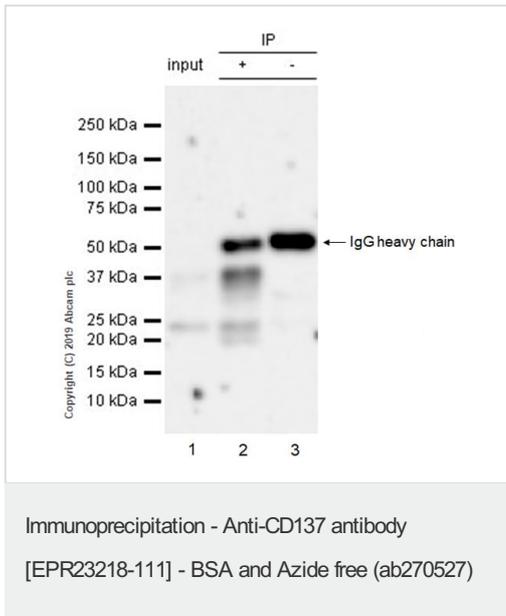
Flow cytometric analysis of Mouse splenocytes (treated with 2.5ug/ml concanavalin A for 72h) cells labelling CD137 with [ab243648](#) at 1/500 (Right) compared with a Rabbit monoclonal IgG ([ab172730](#)) isotype control (Left).

Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as the secondary antibody.

Cells were stained with rabbit IgG (Left) or [ab243648](#) (Right), then stained with anti-CD25 conjugated to BV421.

Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab243648](#)).



CD137 was immunoprecipitated from 0.35 mg mouse splenocyte (treated with 2.5 µg/ml Concanavalin A for 72 hours) whole cell lysate with [ab243648](#) at 1/30 dilution. Western blot was performed on the immunoprecipitate using [ab243648](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

Lane 1: Mouse splenocyte (treated with 2.5 µg/ml Concanavalin A for 72 hours) whole cell lysate 10 µg

Lane 2: [ab243648](#) IP in Mouse splenocyte (treated as above) whole cell lysate

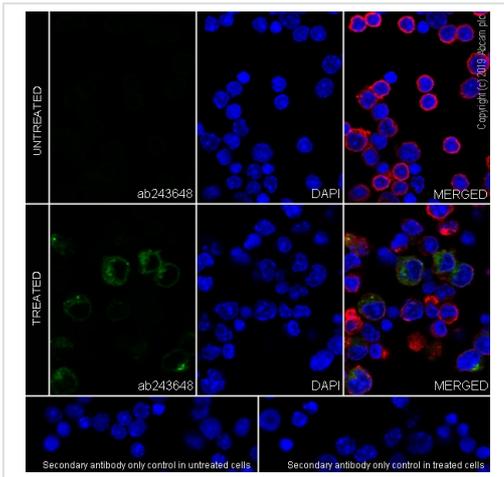
Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab243648](#) in Mouse splenocyte (treated as above) whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 76 seconds.

CD137 is a type I transmembrane glycoprotein and has both monomeric and dimeric forms on the surface of activated T cells (PMID: 30355497).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab243648](#)).



Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Mouse splenocytes cells labelling CD137 with [ab243648](#) at 1/100 dilution, followed by [ab150077](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic and membranous staining in mouse splenocytes treated with Concanavalin A (2.5 ug/ml) for 72 h. [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is [ab150077](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab243648](#)).

Immunocytochemistry/ Immunofluorescence - Anti-CD137 antibody [EPR23218-111] - BSA and Azide free ([ab270527](#))

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

Anti-CD137 antibody [EPR23218-111] - BSA and Azide free ([ab270527](#))

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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