abcam

Product datasheet

Anti-RAB29 (phospho S72) antibody [MJF-R40-R3-H3] ab291075

Recombinant RabMAb

2 Images

Overview

Product name	Anti-RAB29 (phospho S72) antibody [MJF-R40-R3-H3]
Description	Rabbit monoclonal [MJF-R40-R3-H3] to RAB29 (phospho S72)
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Whole cell lysates of HEK-293T transfected with a human LRRK2[R1441G] expression vector and a human RAB29 expression vector containing a HA-tag. RAB29 expression vector contained either the single T71A mutation or both T71A and S72A mutations. Cells were either treated or not treated with 200 µM MLi-2 for 1.5h. All variations were HA-tagged.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. This antibody was developed with support from The Michael J. Fox Foundation. THE MICHAEL J. FOX FOUNDATION FOR PARKINSON'S RESEARCH

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	MJF-R40-R3-H3
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab291075 in the following tested applications.

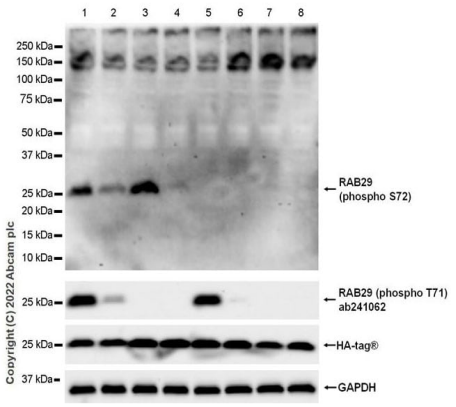
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500. Detects a band of approximately 25 kDa (predicted molecular weight: 23 kDa).

Target

Function	Rab GTPase key regulator in vesicle trafficking. Essential for maintaining the integrity of the endosome-trans-Golgi network structure. Together with LRRK2, plays a role in the retrograde trafficking pathway for recycling proteins, such as mannose 6 phosphate receptor (M6PR), between lysosomes and the Golgi apparatus in a retromer-dependent manner. Regulates neuronal process morphology in the intact central nervous system (CNS). May play a role in the formation of typhoid toxin transport intermediates during Salmonella enterica serovar Typhi (S.Typhi) epithelial cell infection.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the small GTPase superfamily. Rab family.
Post-translational modifications	In case of Salmonella enterica serovar Typhimurium (S.Typhimurium) infection, is proteolytically cleaved between Gly-41 and Val-42 by the GtgE viral protease encoded on the Gifsy-2 lysogen bacteriophage, which therefore prevents the recruitment of RAB29 to S.Typhimurium-containing vacuoles. In contrast, no proteolytically cleavage is detected in S.Typhi-infected cells (PubMed:22042847).
Cellular localization	Cell membrane. Cytoplasm. Cytoplasm, perinuclear region. Golgi apparatus. Golgi apparatus, trans-Golgi network. Vacuole. Cytoplasm, cytoskeleton. Colocalizes with LRRK2 along tubular structures emerging from Golgi apparatus (By similarity). Colocalizes with GM130 at the Golgi apparatus. Colocalizes with dynamic tubules emerging from and retracting to the Golgi apparatus. Colocalizes with TGN46 at the trans-Golgi network (TGN). In Salmonella enterica serovar Typhi (S.Typhi) infected epithelial cells, is recruited and colocalized with both S.Typhi-containing vacuoles and dynamic tubules as well as those emerging from the vacuole toward the cell periphery.

Images



Western blot - Anti-RAB29 (phospho S72) antibody [MJF-R40-R3-H3] (ab291075)

All lanes : Anti-RAB29 (phospho S72) antibody [MJF-R40-R3-H3] (ab291075) at 1/500 dilution

Lane 1 : HEK-293T (human embryonic kidney epithelial cell) transfected with a human LRRK2[R1441G] expression vector and a human RAB29 expression vector containing an HA-tag, whole cell lysate
Lane 2 : HEK-293T transfected with a human LRRK2[R1441G] expression vector and a human RAB29 expression vector containing an HA-tag and treated with 200 µM MLi-2 for 1.5h, whole cell lysate,
Lane 3 : HEK-293T transfected with a human LRRK2[R1441G] expression vector and a human RAB29 (T71A mutation) expression vector containing an HA-tag, whole cell lysate.
Lane 4 : HEK-293T transfected with a human LRRK2[R1441G] expression vector and a human RAB29 (T71A mutation) expression vector containing an HA-tag and treated with 200 µM MLi-2 for 1.5h, whole cell lysate
Lane 5 : HEK-293T transfected with a human LRRK2[R1441G] expression vector and a human RAB29 (S72A mutation) expression vector containing an HA-tag, whole cell lysate
Lane 6 : HEK-293T transfected with a human LRRK2[R1441G] expression vector and a human RAB29 (S72A mutation) expression vector containing an HA-tag and treated with 200 µM MLi-2 for 1.5h, whole cell lysate
Lane 7 : HEK-293T transfected with a human LRRK2[R1441G] expression vector and a human RAB29 (T71A and S72A mutation) expression vector containing an HA-tag, whole cell lysate
Lane 8 : HEK-293T transfected with a human LRRK2[R1441G] expression vector and a human RAB29 (T71A and S72A mutation) expression vector containing an HA-tag and treated with 200 µM MLi-2 for 1.5h, whole cell lysate

Lysates/proteins at 38 µg per lane.

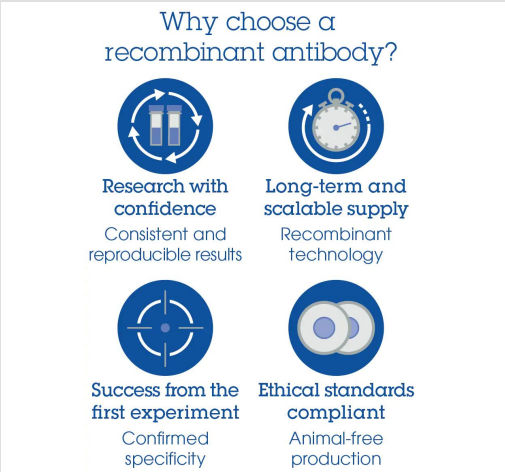
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Predicted band size: 23 kDa
Observed band size: 25 kDa

Exposure time: 3 minutes

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

All the lysates were kindly provided by Prof. Dario Alessi, University of Dundee.



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