

Anti-RAB10 (phospho T73) antibody [MJF-R21] ab230261

KO 評価済 リコンビナント RabMAb

50 References 画像数 6

製品の概要

製品名	Anti-RAB10 (phospho T73) antibody [MJF-R21]
製品の詳細	Rabbit monoclonal [MJF-R21] to RAB10 (phospho T73)
由来種	Rabbit
アプリケーション	適用あり: WB, Dot blot
種交差性	交差種: Mouse, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Wild-type MEF whole cell lysate; LRRK2 [R1441C] knock-in MEF whole cell lysate, 293T transfected with RAB10 expression vector containing a myc-His-tag®, whole cell lysate. Dot Blot: Rab10 (phospho T73) peptide.
特記事項	<p>Please see PMID: 29127256. Lis P <i>et al.</i> Development of phospho-specific Rab protein antibodies to monitor in vivo activity of the LRRK2 Parkinson's disease kinase. <i>Biochem J</i> 475:1-22 (2018).</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 monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p> <p>This antibody was developed with support from The Michael J. Fox Foundation.</p>



製品の特性

製品の状態	Liquid
保存方法	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.

バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリモノ	モノクローナル
クローン名	MJF-R21
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab230261の使用に適用されず**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 23 kDa (predicted molecular weight: 23 kDa).
Dot blot		1/1000.

ターゲット情報

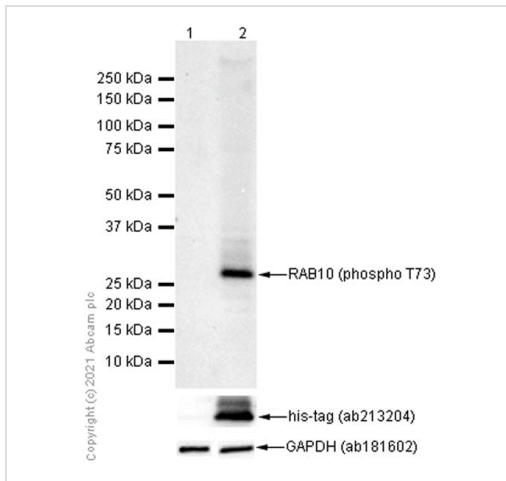
機能

The small GTPases Rab are key regulators of intracellular membrane trafficking, from the formation of transport vesicles to their fusion with membranes. Rabs cycle between an inactive GDP-bound form and an active GTP-bound form that is able to recruit to membranes different set of downstream effectors directly responsible for vesicle formation, movement, tethering and fusion (By similarity). That Rab is mainly involved in the biosynthetic transport of proteins from the Golgi to the plasma membrane. Regulates, for instance, SLC2A4/GLUT4 glucose transporter-enriched vesicles delivery to the plasma membrane. In parallel, it regulates the transport of TLR4, a toll-like receptor to the plasma membrane and therefore may be important for innate immune response. Plays also a specific role in asymmetric protein transport to the plasma membrane within the polarized neuron and epithelial cells. In neurons, it is involved in axonogenesis through regulation of vesicular membrane trafficking toward the axonal plasma membrane while in epithelial cells, it regulates transport from the Golgi to the basolateral membrane. Moreover, may play a role in the basolateral recycling pathway and in phagosome maturation. According to PubMed:23263280, may play a role in endoplasmic reticulum dynamics and morphology controlling tubulation along microtubules and tubules fusion.

配列類似性 Belongs to the small GTPase superfamily. Rab family.

細胞内局在 Cytoplasmic vesicle membrane. Golgi apparatus membrane. Golgi apparatus, trans-Golgi network membrane. Endosome membrane. Recycling endosome membrane. Cytoplasmic vesicle, phagosome membrane. Cell projection, cilium. Endoplasmic reticulum membrane. Associates with SLC2A4/GLUT4 storage vesicles (PubMed:22908308). Localizes to the base of the cilium (PubMed:20576682). Transiently associates with phagosomes (By similarity). Localizes to the endoplasmic reticulum at domains of new tubule growth (PubMed:23263280).

画像



Western blot - Anti-RAB10 (phospho T73) antibody [MJF-R21] (ab230261)

All lanes : Anti-RAB10 (phospho T73) antibody [MJF-R21] (ab230261) at 1/1000 dilution

Lane 1 : 293T (Human embryonic kidney epithelial cell) transfected with an empty vector, containing a myc-His-tag®, whole cell lysate

Lane 2 : 293T transfected with RAB10 expression vector containing a myc-His-tag®, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

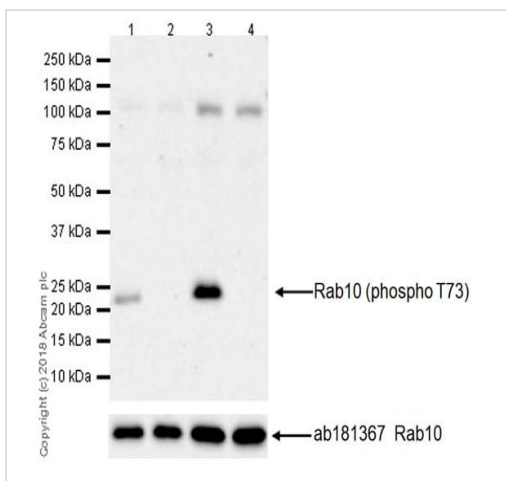
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 23 kDa

Exposure time: 180 seconds

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

Observed MW 28 kDa



Western blot - Anti-RAB10 (phospho T73) antibody [MJF-R21] (ab230261)

All lanes : Anti-RAB10 (phospho T73) antibody [MJF-R21] (ab230261) at 1/1000 dilution

Lane 1 : Wild-type MEF (mouse embryonic fibroblast cell line) whole cell lysate

Lane 2 : Wild-type MEF treated with 100 nM MLI-2 for 90 minutes, whole cell lysate

Lane 3 : LRRK2 [R1441C] knock-in MEF whole cell lysate

Lane 4 : LRRK2 [R1441C] knock-in MEF treated with 100 nM MLI-2 for 90 minutes, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 23 kDa

Observed band size: 23 kDa

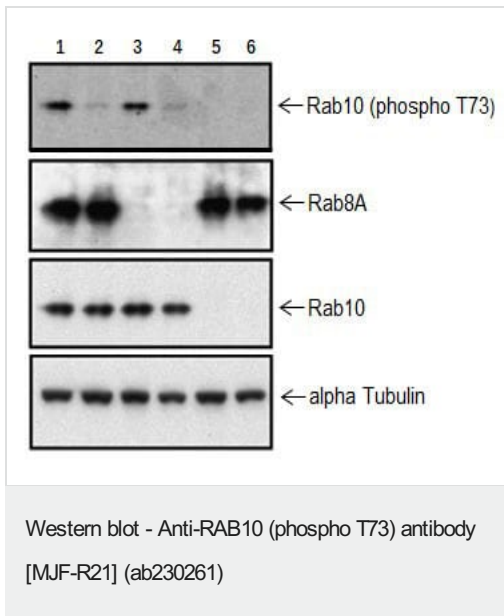
Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

The LRRK2 pathogenic mutation R1441C increases LRRK2 activity and markedly elevates Rab10 phosphorylation in MEF (mouse embryonic fibroblasts).

The expression pattern is consistent with the literature (PMID: 29127256).

The cell lysates were kindly provided by our collaborator, Dr. Dario Alessi.



All lanes : Anti-RAB10 (phospho T73) antibody [MJF-R21] (ab230261) at 1/1000 dilution

Lane 1 : Wild-type A549 (human lung carcinoma cell line) whole cell lysate

Lane 2 : Wild-type A549 treated with 100 nM MLI-2 for 90 minutes, whole cell lysate

Lane 3 : Rab8A knock-out A549 whole cell lysate

Lane 4 : Rab8A knock-out A549 treated with 100 nM MLI-2 for 90 minutes, whole cell lysate

Lane 5 : Rab10 knock-out A549 whole cell lysate

Lane 6 : Rab10 knock-out A549 treated with 100 nM MLI-2 for 90 minutes, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : HRP-labeled secondary antibody at 1/2500 dilution

Predicted band size: 23 kDa

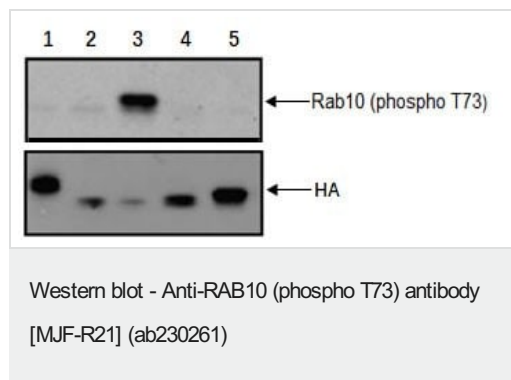
Observed band size: 23 kDa

Blocking buffer: 5% NFDm/TBST.

Dilution buffer: 5% BSA/TBST.

The images were kindly provided by our collaborator, Dr. Dario Alessi, and have been published (PMID: 29127256).

Scanned with Licor Odyssey CLx.



All lanes : Anti-RAB10 (phospho T73) antibody [MJF-R21] (ab230261) at 1/1000 dilution

Lane 1 : HEK-293 (human epithelial cell line from embryonic kidney) cells transfected with LRRK2 [Y1699C] and HA-tagged Rab3A expression vectors, were treated with 150 nM MLI-2 for 90 minutes, whole cell lysate

Lane 2 : HEK-293 cells transfected with LRRK2 [Y1699C] and HA-tagged Rab8A expression vectors, were treated with 150 nM MLI-2 for 90 minutes, whole cell lysate

Lane 3 : HEK-293 cells transfected with LRRK2 [Y1699C] and HA-tagged Rab10 expression vectors, were treated with 150 nM MLI-2 for 90 minutes, whole cell lysate

Lane 4 : HEK-293 cells transfected with LRRK2 [Y1699C] and HA-tagged Rab35 expression vectors, were treated with 150 nM MLI-2 for 90 minutes, whole cell lysate

Lane 5 : HEK-293 cells transfected with LRRK2[Y1699C] and HA-tagged Rab43 expression vectors, were treated with 150 nM MLI-2 for 90 minutes, whole cell lysate

Lysates/proteins at 0.1 µg per lane.

Secondary

All lanes : IRDye 800CW secondary antibody at 1/25000 dilution

Predicted band size: 23 kDa

Observed band size: 23 kDa

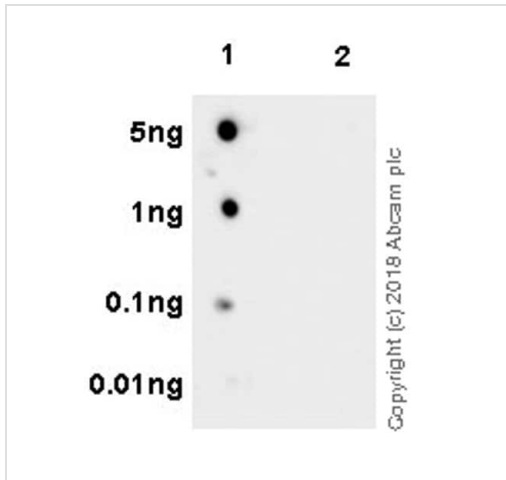
Blocking buffer: 5% NFDm/TBST.

Dilution buffer: 5% BSA/TBST.

The LRRK2 pathogenic mutation Y1699C increases LRRK2 activity and markedly elevates the phosphorylation of Rab proteins.

The images were kindly provided by our collaborator Dr. Dario Alessi, and have been published (PMID: 29127256).

Scanned with Licor Odyssey CLx.



Dot Blot - Anti-RAB10 (phospho T73) antibody [MJF-R21] (ab230261)

Dot blot analysis of Rab10 (phospho T73) labeled with ab230261 at 1/1000 dilution.

Lane 1: Rab10 (phospho T73) peptide;





Lane 2: Rab10 non-phospho peptide.

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100,000 dilution was used as secondary antibody.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 32 seconds.

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-RAB10 (phospho T73) antibody [MJF-R21] (ab230261)

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