

Product datasheet

Anti-RAB8A (phospho T72) antibody [MJF-R20] - BSA and Azide free ab231706

Recombinant RabMAb

[3 References](#) [3 Images](#)

Overview

Product name	Anti-RAB8A (phospho T72) antibody [MJF-R20] - BSA and Azide free
Description	Rabbit monoclonal [MJF-R20] to RAB8A (phospho T72) - BSA and Azide free
Host species	Rabbit
Specificity	ab230260 cross-reacts with phosphorylated Rab3A, Rab10, Rab35 and Rab43. Please note that the immunogen sequence was derived from Rab8A but is identical to that of Rab8B.
Tested applications	Suitable for: WB, Dot blot
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293 cells transfected with LRRK2 [Y1699C] and HA-tagged Rab8A, Rab10 and Rab35 expression vectors, treated with 150 nM MLI-2.
General notes	<p>ab231706 is the carrier-free version of ab230260.</p> <p>Please see PMID: 29127256 . Lis P et al. Development of phospho-specific Rab protein antibodies to monitor in vivo activity of the LRRK2 Parkinson's disease kinase. Biochem J 475:1-22 (2018).</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

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](#).

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	MJF-R20
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab231706 in the following tested applications.

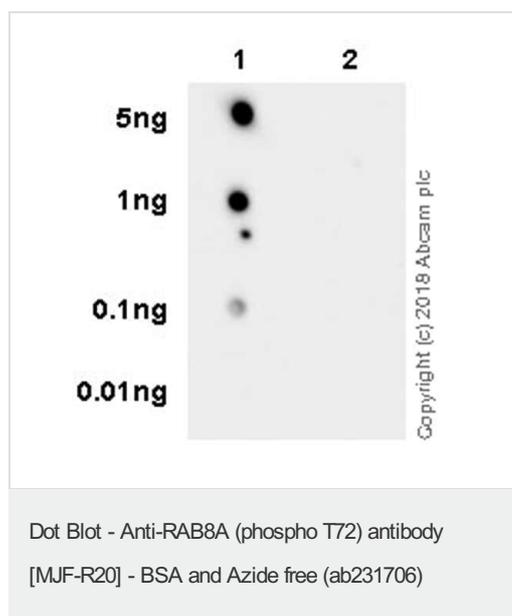
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 24 kDa.
Dot blot		Use at an assay dependent concentration.

Target

Function	May be involved in vesicular trafficking and neurotransmitter release. Together with RAB11A, RAB3IP, the exocyst complex, PARD3, PRKCI, ANXA2, CDC42 and DNMBP promotes transcytosis of PODXL to the apical membrane initiation sites (AMIS), apical surface formation and lumenogenesis. Together with MYO5B and RAB11A participates in epithelial cell polarization.
Sequence similarities	Belongs to the small GTPase superfamily. Rab family.
Cellular localization	Cell membrane. Golgi apparatus. Cytoplasm > perinuclear region. Cell projection. Colocalizes with OPTN at the Golgi complex and in vesicular structures close to the plasma membrane. In the GDP-bound form, present in the perinuclear region. Shows a polarized distribution to distal regions of cell protrusions in the GTP-bound form. Colocalizes with PARD3, PRKCI, EXOC5, OCLN, PODXL and RAB11A in apical membrane initiation sites (AMIS) during the generation of apical surface and lumenogenesis.

Images



Dot Blot - Anti-Rab8A (phospho T72) antibody [MJF-R20] ([ab230260](#)) used at a 1/1000 dilution.

Lane 1: Rab8 (phospho T72) peptide.

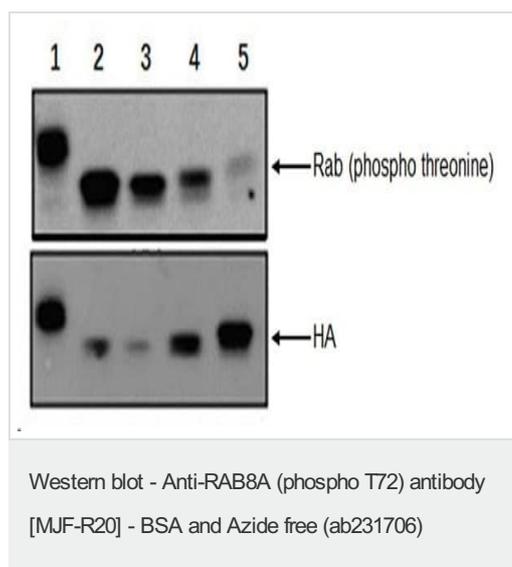
Lane 2: Rab8 non-phospho peptide.

[ab97051](#) secondary antibody used at a 1/100,000 dilution.

Exposure time: 32 seconds.

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab230260](#)).



All lanes : Anti-RAB8A (phospho T72) antibody [MJF-R20] ([ab230260](#)) at 1/1000 dilution

Lane 1 : HEK-293 cells transfected with LRRK2 [Y1699C] and HA-tagged Rab3A expression vectors, were treated with 150 nM MLi-2 for 90 minutes, whole cell lysate, 100 ng

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, 100 ng

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, 100 ng

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, 100 ng

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, 100 ng

Secondary

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

Predicted band size: 24 kDa

Blocking buffer: 5% NFD/MTBST.

Dilution buffer: 5% BSA/TBST.

The LRRK2 pathogenic mutation Y1699C increases LRRK2 activity and markedly elevates Rab8 phosphorylation in MEF (mouse embryonic fibroblasts).

The results show that this antibody recognizes other LRRK2-phosphorylated Rab proteins (Rab3A, Rab10, and Rab35). The phospho-threonine site in Rab8 (T72) differs from that of Rab3A (T86); Rab10 (T73); and Rab43 (T82).

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

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab230260](#)).

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-RAB8A (phospho T72) antibody [MJF-R20] - BSA and Azide free (ab231706)

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

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