

[KO Validated] Rab12 Rabbit mAb [MJFF-A-6E6]

Catalog No.: A26172 **KO Validated** **Recombinant**

Basic Information

Observed MW

27kDa

Calculated MW

27kDa

Category

Primary antibody

Applications

WB, ELISA

Cross-Reactivity

Human, Mouse

CloneNo number

ARC5158-01

Background

Rab12 is a member of the RAS oncogene family and plays a crucial role in intracellular membrane trafficking. This small GTPase protein is involved in the transport of vesicles, particularly from recycling endosomes to lysosomes, and is essential for processes like autophagy and the degradation of the transferrin receptor. Rab12 cycles between an inactive GDP-bound form and an active GTP-bound form, recruiting various effectors responsible for vesicle formation, movement, and fusion. In addition to being a substrate for phosphorylation by LRRK2 (Leucine-Rich Repeat Kinase 2), Rab12 has recently been identified as its significant regulator. It has been shown that Rab12 can activate LRRK2, leading to increased phosphorylation of Rab10, another protein involved in intracellular trafficking. This activation is particularly notable in the context of lysosomal damage, where Rab12 helps recruit LRRK2 to lysosomes, enhancing its activity. Dysregulation of this pathway due to pathogenic LRRK2 mutations can contribute to the neurodegenerative processes observed in Parkinson's disease.

Recommended Dilutions

WB 1:1000 - 1:5000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

201475

Swiss Prot

Q6IQ22

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

RAB12

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

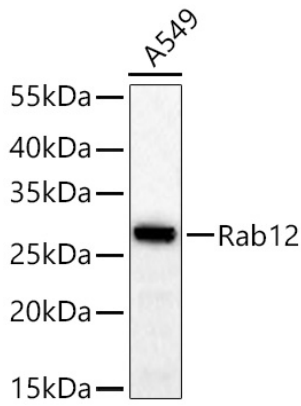
Affinity purification

Storage

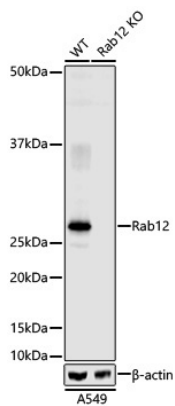
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3

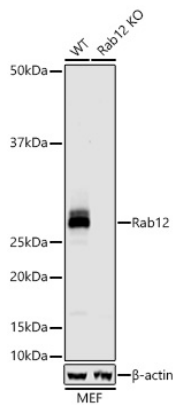
Validation Data



Western blot analysis of lysates from A549 cells using Rab12 Rabbit mAb (A26172) at 1:2000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



Western blot analysis of lysates from wild type (WT) and Rab12 knockout (KO) A-549 cells using Rab12 Rabbit mAb (A26172) at 1:1000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020)
Exposure time: 30s.



Western blot analysis of lysates from wild type (WT) and Rab12 knockout (KO) MEF cells using Rab12 Rabbit mAb (A26172) at 1:1000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.