

Rabex-5 Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11566**Specification**

Rabex-5 Antibody - Product Information

Application	WB
Primary Accession	O9UJ41
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	56891

Rabex-5 Antibody - Additional Information**Gene ID** 27342**Other Names**

Rab5 GDP/GTP exchange factor

Target/Specificity

Rabex-5

Formulation

100 µg (0.5 mg/ml) of antibody in PBS, 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol, pH 7.2

Handling

The antibody solution should be gently mixed before use.

Background Descriptions**Precautions**

Rabex-5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Rabex-5 Antibody - Protein Information**Name** RABGEF1**Synonyms** RABEX5**Function**

Rab effector protein acting as linker between gamma-adaptin, RAB4A or RAB5A. Involved in endocytic membrane fusion and membrane trafficking of recycling endosomes. Stimulates nucleotide exchange on RAB5A. Can act as a ubiquitin ligase (By similarity).

Cellular Location

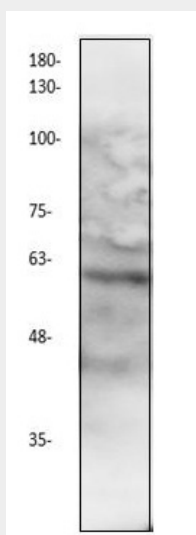
Cytoplasm. Early endosome. Recycling endosome

Rabex-5 Antibody - Protocols

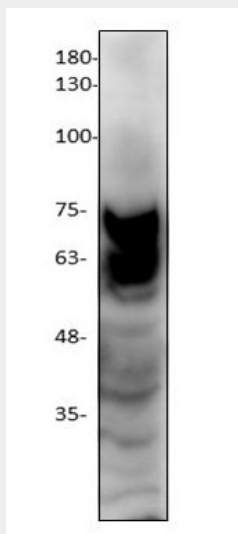
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Rabex-5 Antibody - Images



Western blot of 3T3 lysate with Rabex-5.



Western blot of Rat kidney lysate with Rabex-5

Rabex-5 Antibody - Background

Rabex-5, also called RabGEF1 and RAP1, was identified as a guanine nucleotide exchange factor (GEF) for Rab5, a member of the Ras superfamily of small Rab GTPases (1). Rabex-5 generates the GTP-bound active form of Rab5 and forms a tight association with its effector protein Rabaptin-5. This complex localizes to endosomal membranes where it functions as a key regulator of vesicular trafficking during early endocytosis. Rabex-5 is also monoubiquitinated and has ubiquitin ligase activity that regulates its recruitment to early endosomes. The conformational change between Rab5 GTP/GDP states is essential for its biological function as a rate limiting regulator at multiple steps during endocytosis. Through its control of endosomal trafficking and endocytosis, Rabex-5 has been shown to negatively regulate NGF-mediated neurite outgrowth as well as FcεRI-dependent mast cell activation.