

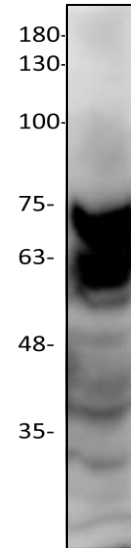
# Rabex-5 Antibody

|                            |  |                    |
|----------------------------|--|--------------------|
| <b>ALTERNATE NAMES:</b>    | Rab5 GDP/GTP exchange factor   |                    |
| <b>CATALOG NO:</b>         | 3905-30T   | 30 µg (Trial size) |
|                            | 3905-100   | 100 µg             |
| <b>HOST:</b>               | Rabbit   |                    |
| <b>ISOTYPE:</b>            | IgG  |                    |
| <b>IMMUNOGEN:</b>          | Synthetic peptide at C-terminal (BV-M11)   |                    |
| <b>PURIFICATION:</b>       | Affinity purified  |                    |
| <b>MOLECULAR WEIGHT:</b>   | ~ 57 kDa   |                    |
| <b>FORM:</b>               | Liquid   |                    |
| <b>FORMULATION:</b>        | 0.5 mg/ml of antibody in PBS, 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol, pH 7.2 |                    |
| <b>SPECIES REACTIVITY:</b> | Human, Mouse and Rat.  |                    |
| <b>STORAGE CONDITIONS:</b> | Store at -20°C. Avoid repeated freeze/thaw cycles.                                     |                    |

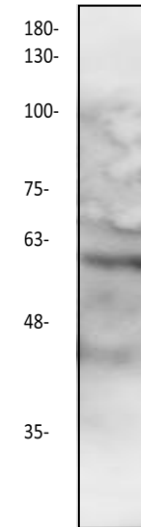
**DESCRIPTION:** Rabex-5, also called RabGEF1 and RAP1, was identified as a guanine nucleotide exchange factor (GEF) for Rab5, a member of the Ras superfamily of small Rab GTPases (1). Rabex-5 generates the GTP-bound active form of Rab5 and forms a tight association with its effector protein Rabaptin-5. 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.

**APPLICATION:** Western blot: 1:200

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.



Western blot of Rat kidney lysate with Rabex-5



Western blot of 3T3 lysate with Rabex-5

## RELATED PRODUCTS:

- Rabex-5 Blocking Peptide (**Cat.No.# 3905BP-50**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**