Technical Data Sheet

Purified Mouse Anti-Rab5

**Product Information**
- **Material Number:** 610281
- **Size:** 50 µg
- **Concentration:** 250 µg/ml
- **Clone:** 15/Rab5
- **Immunogen:** Human Rab5 aa. 1-215
- **Isotype:** Mouse IgG1
- **Reactivity:** QC Testing: Human, Tested in Development: Rat, Mouse
- **Target MW:** 25 kDa
- **Storage Buffer:** Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

**Description**
Rab5 is a low molecular weight GTP-binding protein that plays a role in endocytic vesicle traffic. Like other Rab proteins, Rab5 has C-terminal cysteine residues that are post-translationally modified by geranylgeranylation, which is critical for its membrane targeting. Rab5 is associated with early endosome and plasma membranes and evidence suggests that Rab5 is involved in regulation of early endosome fusion. The GTP/GDP cycle controls shuttling of Rab proteins between the cytosol and organelle membranes. In vitro, Rab5 proteins are removed from membranes by a GDP dissociation inhibitor protein (rabGDI) which leads to the formation of a cytosolic Rab5-rabGDI complex. Rab5 insertion into membranes is a multistep process in which a transient GDP-Rab5 intermediate is formed and converted into GTP-Rab5 that subsequently enters the acceptor membrane and releases rabGDI into the cytosol.

**Western blot analysis of Rab5 on human endothelial cell lysate.** Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of anti-Rab5.

**Immunofluorescent staining on Human Endothelial cells.**

**Preparation and Storage**
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20°C.

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Application Notes

Application

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<th>Tested During Development</th>
<th>Not Recommended</th>
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<tbody>
<tr>
<td>Western blot</td>
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Suggested Companion Products

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<td>611450</td>
<td>Human Endothelial Cell Lysate</td>
<td>500 µg</td>
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<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
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<td>554001</td>
<td>FITC Goat Anti-Mouse Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References


Sanford JC, Pan Y, Wessling-Resnick M. Prenylation of Rab5 is dependent on guanine nucleotide binding. J Biol Chem. 1993; 268(32):23773-23776. (Biology)