

**Antibody to RhoG (1F3-B3-E5)**
MOUSE MONOCLONAL

Catalog Number: AB-V77
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgG2a
Clone: 1F3-B3-E5

Background: RhoG (ARGH) is a member of the Ras superfamily of small GTP-binding proteins and belongs to the Rac subfamily of Rho GTPases. It is activated by guanine nucleotide exchange factors (GEFs), which promote the exchange of GDP for GTP, producing the active form of the protein. Active RhoG interacts with downstream effectors such as ELMO and DOCK180 before hydrolyzing GTP to GDP to return to its inactive state. RhoG plays an important role in integrin-mediated Rac activation and cell spreading, acting upstream of Rac while also functioning independently in certain signaling pathways.

Specificity & Preparation: This mouse IgG2a antibody is generated against amino acids 161-180 of RhoG and recognizes human, mouse, and rat homologs.

Usage: Applications include western blot and ELISA. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Meller J, Vidali L, Schwartz MA (2008) Endogenous RhoG is dispensable for integrin-mediated cell spreading but contributes to Rac-independent migration. *J Cell Sci* 121(Pt 12):1981-1989. doi: 10.1242/jcs.025130 PMID: 18505794

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