

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human/Mouse/Rat                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | Detects human, mouse, and rat ARHGAP1 in Western blots.                                                                                                                                                                                                                     |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human ARHGAP1<br>aa 1-62<br>Accession # Q07960                                                                                                                                                                                          |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

ARHGAP1 (also p50-RhoGAP and CDC42 GTPase-activating protein) is a 50 kDa member of the ARHGAP family of proteins. It is preferentially expressed in epithelium, and serves as a cytoplasmic protein that deactivates Rho-family GTPases. It does so by contributing an Arg residue (Arg282) to Cdc42 and RhoA, which activates their intrinsic GTPase activity and converts GTP-associated molecules into inactivating GDP molecules. Human ARHGAP1 is 439 amino acids (aa) in length and contains one CRAL-TRIO domain that binds small lipophilic molecules (aa 53-218), an SH3 binding site (aa 228-238) and one C-terminal RhoGAP domain (aa 244-431). There are phosphorylation sites at Ser51 and Tyr65. There is one potential splice form with a 24 aa substitution for aa 1-150 coupled to a 26 aa substitution for aa 300-439. Over aa 1-62, human ARHGAP1 shares 96% aa identity with mouse ARHGAP1.

#### PRODUCT SPECIFIC NOTICES

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