

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat ARHGAP1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human ARHGAP1 aa 1-62 Accession # Q07960
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	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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