

Human/Mouse/Rat ARHGAP1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6407

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		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

Please Note: Optimal dilutions should be	determined by each laboratory for each applica	tion. General Protocols are available in the Technical Information section on our website.
	Recommended Concentration	Sample
Western Blot	0.2 μg/mL	See Below

DATA

24 -18-6

Western Blot								
kDa 113 — 93 — 65 — 40 — 24 — 18 —	431	l Baf3	I NRK	— ARHGAP1	Detection of Human, Mouse, and Rat ARHGAP1 by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, BaF3 mouse pro-B cell line, and NRK rat normal kidney cell line. PVDF Membrane was probed with 0.2 µg/mL of Sheep Anti- Human/Mouse/Rat ARHGAP1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6407) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for ARHGAP1 at approximately 58 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.			

PREPARATION AND STORAGE				
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.			
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C			
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months -20 to -70 °C under sterile conditions after reconstitution. 			

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.

Rev. 11/16/2018 Page 1 of 1



Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449