

# ARFGAP1 (S-17): sc-70015

## BACKGROUND

ARFGAP1 (ADP-ribosylation factor GTPase activating protein 1), also known as ARF1 GAP, is a 406 amino acid protein that contains one ARF-GAP domain and localizes to the cytoplasm and the Golgi apparatus. Functioning as a GTPase-activating protein (GAP), ARFGAP1 interacts with ARF1 and promotes hydrolysis of ARF1-bound GTP, an event that is required for both the dissociation of coat proteins from Golgi structures and for the subsequent fusion of Golgi vesicles with target compartments. When overexpressed, ARFGAP1, whose activity is inhibited by phosphatidylcholine and stimulated by phosphoinositides, can induce the redistribution of the entire Golgi apparatus to the endoplasmic reticulum. Multiple isoforms of ARFGAP1 exist due to alternative splicing events.

## REFERENCES

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3. Majoul, I., et al. 2001. KDEL-cargo regulates interactions between proteins involved in COPI vesicle traffic: measurements in living cells using FRET. *Dev. Cell* 1: 139-153.
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8. Lippincott-Schwartz, J. and Liu, W. 2006. Insights into COPI coat assembly and function in living cells. *Trends Cell Biol.* 16: e1-e4.
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## CHROMOSOMAL LOCATION

Genetic locus: ARFGAP1 (human) mapping to 20q13.33; Arfgap1 (mouse) mapping to 2 H4.

## SOURCE

ARFGAP1 (S-17) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of ARFGAP1 of human origin.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-70015 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ARFGAP1 (S-17) is recommended for detection of ARFGAP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

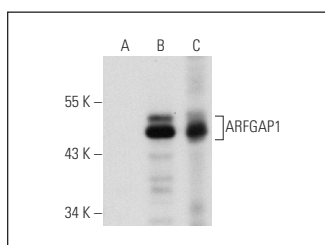
ARFGAP1 (S-17) is also recommended for detection of ARFGAP1 in additional species, including canine, bovine and avian.

Suitable for use as control antibody for ARFGAP1 siRNA (h): sc-72529, ARFGAP1 siRNA (m): sc-72530, ARFGAP1 shRNA Plasmid (h): sc-72529-SH, ARFGAP1 shRNA Plasmid (m): sc-72530-SH, ARFGAP1 shRNA (h) Lentiviral Particles: sc-72529-V and ARFGAP1 shRNA (m) Lentiviral Particles: sc-72530-V.

Molecular Weight of ARFGAP1: 45 kDa.

Positive Controls: ARFGAP1 (h): 293 Lysate: sc-114757 or mouse brain extract: sc-2253.

## DATA



ARFGAP1 (S-17): sc-70015. Western blot analysis of ARFGAP1 expression in non-transfected: sc-110760 (A) and human ARFGAP1 transfected: sc-114757 (B) 293 whole cell lysates and mouse brain tissue extract (C).

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.



Try **ARFGAP1 (C-4): sc-271303** or **ARFGAP1/2/3 (F-3): sc-390955**, our highly recommended monoclonal alternatives to ARFGAP1 (S-17).