

ARHGAP18 Antibody
Catalog # ASC11059**Specification****ARHGAP18 Antibody - Product Information**

Application	WB, IF, ICC, E
Primary Accession	Q8N392
Other Accession	NP_277050 , 39932589
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	ARHGAP18 antibody can be used for detection of ARHGAP18 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

ARHGAP18 Antibody - Additional Information

Gene ID	93663
Target/Specificity	
ARHGAP18;	

Reconstitution & Storage

ARHGAP18 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

ARHGAP18 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ARHGAP18 Antibody - Protein Information

Name ARHGAP18 ([HGNC:21035](#))

Function

Rho GTPase activating protein that suppresses F-actin polymerization by inhibiting Rho. Rho GTPase activating proteins act by converting Rho-type GTPases to an inactive GDP-bound state (PubMed:21865595). Plays a key role in tissue tension and 3D tissue shape by regulating cortical actomyosin network formation. Acts downstream of YAP1 and inhibits actin polymerization, which in turn reduces nuclear localization of YAP1 (PubMed:25778702). Regulates cell shape, spreading, and migration (PubMed:21865595).

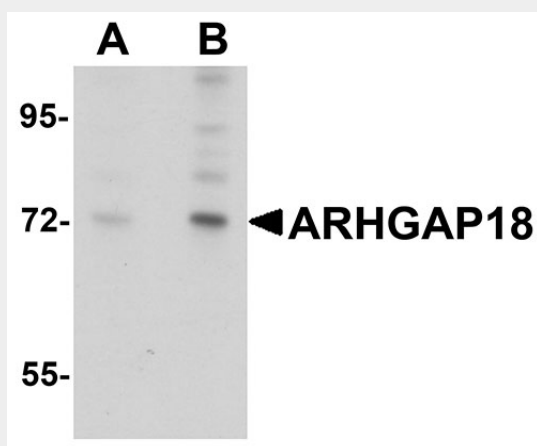
Cellular Location

Cytoplasm.

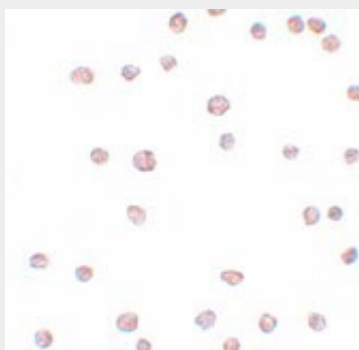
ARHGAP18 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

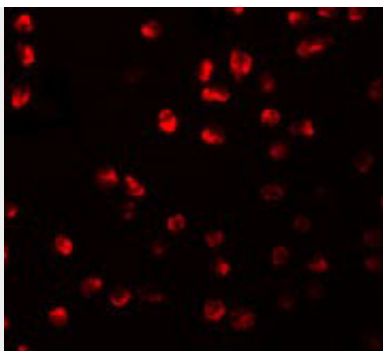
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ARHGAP18 Antibody - Images

Western blot analysis of ARHGAP18 in 3T3 cell lysate with ARHGAP18 antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.



Immunocytochemistry of ARHGAP18 in 3T3 cells with ARHGAP18 antibody at 2.5 $\mu\text{g/mL}$.



Immunofluorescence of ARHGAP18 in 3T3 cells with ARHGAP18 antibody at 20 μ g/mL.

ARHGAP18 Antibody - Background

ARHGAP18 Antibody: ARHGAP18 is one member of the human RhoGAP family with approximately 80 RhoGAP proteins known to be encoded in the human genome. Rho proteins belong to the Ras superfamily that is composed of over 50 members divided into six families, including Ras, Sar, Rho, Ran, Rab and Arf. Rho GTPases are important regulators of the actin cytoskeleton and consequently influence the shape and migration of cells. ARHGAP18 is linked to Ras, and thus, to EGFR-mediated proliferation, migration and differentiation. ARHGAP18 is precisely contained within chromosome 6q22-24, which has been shown to be linked to schizophrenia, suggesting that ARHGAP18 may play a role in this condition.

ARHGAP18 Antibody - References

Takai Y, Sasaki T, and Matozaki T. Small GTP-binding proteins. *Physiol. Rev.*2001; 81:153-208.
Potkin SG, Turner JA, Fallon JA, et al. Gene discovery through imaging genetics: identification of two novel genes associated with schizophrenia. *Mol. Psychiatry*2009; 14:416-28.