

**ARHGAP18 Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8516c****Specification**

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**ARHGAP18 Antibody (Center) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q8N392</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	74977
Antigen Region	180-207

**ARHGAP18 Antibody (Center) - Additional Information****Gene ID** 93663**Other Names**

Rho GTPase-activating protein 18, MacGAP, Rho-type GTPase-activating protein 18, ARHGAP18 (<a href="http://www.genenames.org/cgi-bin/gene\_symbol\_report?hgnc\_id=21035" target="\_blank">HGNC:21035</a>)

**Target/Specificity**

This ARHGAP18 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 180-207 amino acids from the Central region of human ARHGAP18.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

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

**ARHGAP18 Antibody (Center) - 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**

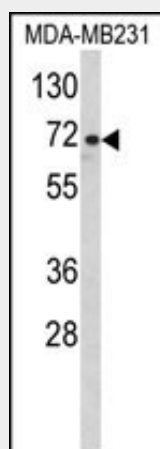
Cytoplasm.

**ARHGAP18 Antibody (Center) - Protocols**

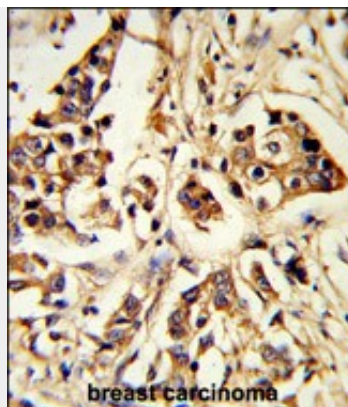
Provided below are standard protocols that you may find useful for product applications.

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

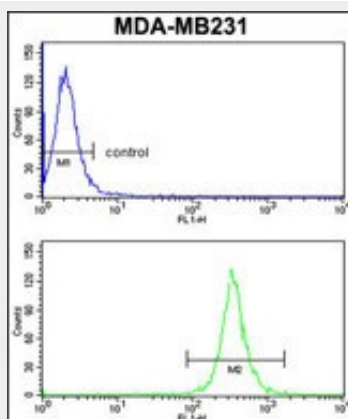
**ARHGAP18 Antibody (Center) - Images**



Western blot analysis of ARHGAP18 Antibody (Center) (Cat. #AP8516c) in MDA-MB231 cell line lysates (35ug/lane). ARHGAP18 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human breast carcinoma reacted with ARHGAP18 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ARHGAP18 Antibody (Center) (Cat.#AP8516c) flow cytometry analysis of MDA-MB231 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **ARHGAP18 Antibody (Center) - Background**

GTPase activator for the Rho-type GTPases by converting them to an inactive GDP-bound state.

#### **ARHGAP18 Antibody (Center) - References**

Potkin, S.G., et.al., Mol. Psychiatry 14 (4), 416-428 (2009) Lehner, B. et.al., Genome Res. 14 (7), 1315-1323 (2004)