

# ARHGAP18 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8516c

## Product Information

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Application	WB, IHC-P, FC, E
Primary Accession	<a href="#">Q8N392</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22048
Calculated MW	74977
Antigen Region	180-207

## Additional Information

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Gene ID	93663
Other Names	Rho GTPase-activating protein 18, MacGAP, Rho-type GTPase-activating protein 18, ARHGAP18 ( <a href="#">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~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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.

## Protein Information

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Name	ARHGAP18 ( <a href="#">HGNC:21035</a> )
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: <a href="#">21865595</a> ). 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.

## Background

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

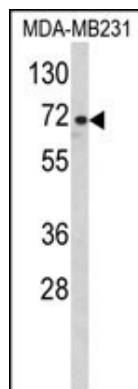
## References

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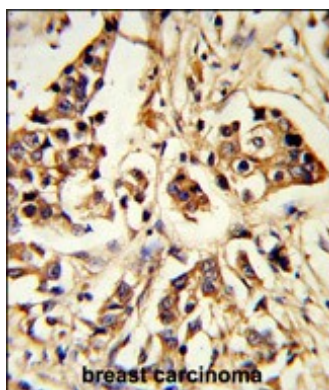
Potkin,S.G., et.al., Mol. Psychiatry 14 (4), 416-428 (2009) Lehner,B.et.al., Genome Res. 14 (7), 1315-1323 (2004)

## Images

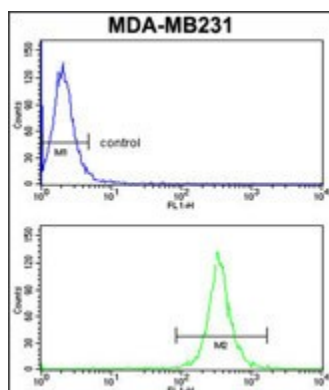
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Western blot analysis of ARHGAP18 Antibody (Center) (Cat. #AP8516c) in MDA-MB231 cell line lysates (35ug/lane). ARHGAP18 (arrow) was detected using the purified Pab.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.