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# 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** | Q8N392 |
| **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 (HGNC:21035) |
| **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 ( 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.

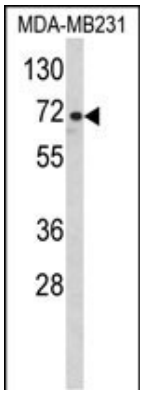
## Background

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

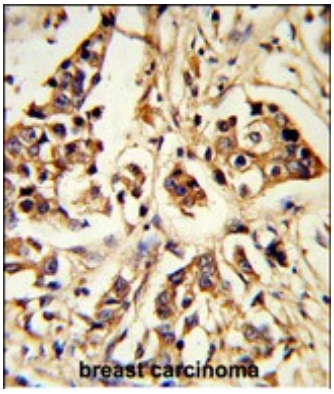
## References

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

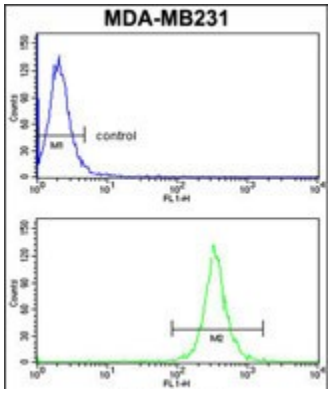
## Images




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.

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