

ARHGAP10 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10695b**Specification**

ARHGAP10 Antibody (Center) - Product Information

Application	FC, IHC-P, WB,E
Primary Accession	A1A4S6
Other Accession	Q08DP6 , NP_078881.3
Reactivity	Human
Predicted	Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	237-263

ARHGAP10 Antibody (Center) - Additional Information**Gene ID** 79658**Other Names**

Rho GTPase-activating protein 10, GTPase regulator associated with focal adhesion kinase 2, Graf-related protein 2, Rho-type GTPase-activating protein 10, ARHGAP10, GRAF2

Target/Specificity

This ARHGAP10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 237-263 amino acids from the Central region of human ARHGAP10.

Dilution

FC~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

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

ARHGAP10 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ARHGAP10 Antibody (Center) - Protein Information

Name ARHGAP10

Synonyms GRAF2

Function GTPase-activating protein that catalyzes the conversion of active GTP-bound Rho GTPases to their inactive GDP-bound form, thus suppressing various Rho GTPase-mediated cellular processes (PubMed:[11432776](#)). Also converts Cdc42 to an inactive GDP-bound state (PubMed:[11432776](#)). Essential for PTKB2 regulation of cytoskeletal organization via Rho family GTPases. Inhibits PAK2 proteolytic fragment PAK-2p34 kinase activity and changes its localization from the nucleus to the perinuclear region. Stabilizes PAK-2p34 thereby increasing stimulation of cell death (By similarity). Associates with MICAL1 on the endosomal membrane to promote Rab8-Rab10-dependent tubule extension. After dissociation with MICAL1, recruits WDR44 which connects the endoplasmic reticulum (ER) with the endosomal tubule, thereby participating in the export of a subset of neosynthesized proteins (PubMed:[32344433](#)).

Cellular Location

Cytoplasm. Cytoplasm, perinuclear region. Cell membrane. Endosome membrane.

Note=Association to cell membrane is dependent on PH domain. Colocalized with MICAL1, RAB8A, RAB8B and RAB10 on endosomal tubules (PubMed:[32344433](#)). {ECO:0000250, ECO:0000269|PubMed:[32344433](#)}

Tissue Location

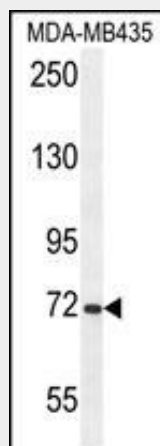
High levels of expression in heart and skeletal muscle.

ARHGAP10 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](#)

ARHGAP10 Antibody (Center) - Images

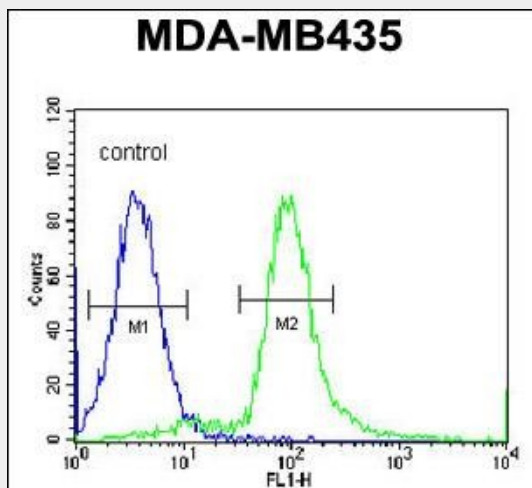


ARHGAP10 Antibody (Center) (Cat. #AP10695b) western blot analysis in MDA-MB435 cell line

lysates (35ug/lane). This demonstrates the ARHGAP10 antibody detected the ARHGAP10 protein (arrow).



ARHGAP10 antibody (Center) (Cat. #AP10695b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ARHGAP10 antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



ARHGAP10 Antibody (Center) (Cat. #AP10695b) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ARHGAP10 Antibody (Center) - Background

GTPase activator for the small GTPases RhoA and Cdc42 by converting them to an inactive GDP-bound state. Essential for PTKB2 regulation of cytoskeletal organization via Rho family GTPases. Inhibits PAK2 proteolytic fragment PAK-2p34 kinase activity and changes its localization from the nucleus to the perinuclear region. Stabilizes PAK-2p34 thereby increasing stimulation of cell death (By similarity).

ARHGAP10 Antibody (Center) - References

- Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
- Azzato, E.M., et al. Cancer Epidemiol. Biomarkers Prev. 19(4):1140-1143(2010)
- Lind, P.A., et al. Twin Res Hum Genet 13(1):10-29(2010)
- Takefuji, M., et al. J. Hum. Genet. 55(1):42-49(2010)
- Marroni, F., et al. Circ Cardiovasc Genet 2(4):322-328(2009)