

# Phospho-ARHGAP35(Y1105) antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3903a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q9NRY4</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB46920
<b>Calculated MW</b>	170514

## Additional Information

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<b>Gene ID</b>	2909
<b>Other Names</b>	Rho GTPase-activating protein 35, Glucocorticoid receptor DNA-binding factor 1, Glucocorticoid receptor repression factor 1, GRF-1, Rho GAP p190A, p190-A, ARHGAP35, GRF1, GRLF1, KIAA1722
<b>Target/Specificity</b>	This antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1090-1135 amino acids from human.
<b>Dilution</b>	WB~~1:500 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	Phospho-ARHGAP35(Y1105) antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ARHGAP35 ( <a href="#">HGNC:4591</a> )
<b>Function</b>	Rho GTPase-activating protein (GAP) (PubMed: <a href="#">19673492</a> , PubMed: <a href="#">28894085</a> ). Binds several acidic phospholipids which inhibits the Rho GAP activity to promote the Rac GAP activity (PubMed: <a href="#">19673492</a> ). This binding is inhibited by phosphorylation by PRKCA (PubMed: <a href="#">19673492</a> ). Involved in cell differentiation as well as cell adhesion and migration, plays an important role

in retinal tissue morphogenesis, neural tube fusion, midline fusion of the cerebral hemispheres and mammary gland branching morphogenesis (By similarity). Transduces signals from p21-ras to the nucleus, acting via the ras GTPase-activating protein (GAP) (By similarity). Transduces SRC- dependent signals from cell-surface adhesion molecules, such as laminin, to promote neurite outgrowth. Regulates axon outgrowth, guidance and fasciculation (By similarity). Modulates Rho GTPase- dependent F-actin polymerization, organization and assembly, is involved in polarized cell migration and in the positive regulation of ciliogenesis and cilia elongation (By similarity). During mammary gland development, is required in both the epithelial and stromal compartments for ductal outgrowth (By similarity). Represses transcription of the glucocorticoid receptor by binding to the cis- acting regulatory sequence 5'-GAGAAAAGAACTGGAGAACTC-3'; this function is however unclear and would need additional experimental evidences (PubMed:[1894621](#)).

### Cellular Location

Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q91YM2}. Cytoplasm {ECO:0000250|UniProtKB:Q91YM2}. Nucleus Cell membrane {ECO:0000250|UniProtKB:Q91YM2}. Note=In response to integrins and SDC4 and upon phosphorylation by PKC, relocates from the cytoplasm to regions of plasma membrane ruffling where it colocalizes with polymerized actin. {ECO:0000250|UniProtKB:Q91YM2}

### Tissue Location

Detected in neutrophils (at protein level).

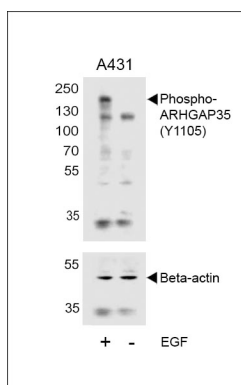
## Background

Represses transcription of the glucocorticoid receptor by binding to the cis-acting regulatory sequence 5'-GAGAAAAGAACTGGAGAACTC-3'. May participate in the regulation of retinal development and degeneration. May transduce signals from p21-ras to the nucleus, acting via the ras GTPase-activating protein (GAP). May also act as a tumor suppressor.

## References

- Nagase T.,et al.DNA Res. 7:347-355(2000).  
 Nakajima D.,et al.DNA Res. 9:99-106(2002).  
 Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.  
 Tikoo A.,et al.Gene 257:23-31(2000).  
 LeClerc S.,et al.J. Biol. Chem. 266:17333-17340(1991).

## Images



Western blot analysis of lysates from A431 cell line, untreated or treated with EGF, 100ng/ml, using Phospho-HUMAN-ARHGAP35(Y1105)(Cat. #AP3903a)(upper) or Beta-actin (lower).

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