

Rabbit GRF-1 Polyclonal Antibody | anti-GRF-1 antibody

GRF-1 Antibody

CATALOG # AAA322457	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunocytochemistry, Immunofluorescence, Western Blot
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PRODUCT SYNONYMS

GRF-1; Polyclonal Antibody; GRF-1 Antibody; ARHGAP35; GAP associated protein p190; Glucocorticoid receptor DNA binding factor 1; Glucocorticoid receptor DNA-binding factor 1; Glucocorticoid receptor repression factor 1; GRF 1; GRF1; GRLF 1; GRLF1; GRLF1_HUMAN; KIAA1722; MGC10745; p190 A; p190-A; P190A; rat; homolog of; p190ARhoGAP; p190RhoGAP; Rho GAP p190A; Rho GTPase-activating protein 35; anti-GRF-1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	GRF-1 antibody detects endogenous levels of total GRF-1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1499
Applicable Applications for anti-GRF-1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human GRF-1
Subcellular Location	Cytoplasm. Nucleus.
Tissue Specificity	Detected in neutrophils (at protein level).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of GRF-1 expression in 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA322457 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-GRF-1 antibody

Description: GRF-1 the human glucocorticoid receptor DNA binding factor, which associates with the promoter region of the glucocorticoid receptor gene (hGR gene), is a repressor of glucocorticoid receptor transcription. May participate in the regulation of retinal development and degeneration. May transduce signals from p21-ras to the nucleus, acting via the ras GTP-ase activating protein (GAP).

Function: Rho GTPase-activating protein (GAP) (PubMed:19673492, PubMed:28894085). Binds several acidic phospholipids which inhibits the Rho GAP activity to promote the Rac GAP activity (PubMed:19673492). This binding is inhibited by phosphorylation by PRKCA (PubMed:19673492). 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).

Subunit Structure: Interacts with RASA1 (By similarity). Interacts with the general transcription factor GTF2I, the interaction sequesters GTF2I in the cytoplasm (PubMed:19393245).

Post-translational Modifications: Phosphorylation of Tyr-1105 by PTK6 promotes the association with RASA1, inactivating RHOA while activating RAS. Phosphorylation at Tyr-308 by PDGFRA inhibits binding to GTF2I (PubMed:18829532, PubMed:19393245). Phosphorylated by PRKCA at Ser-1221 and Thr-1226, induces relocalization from the cytoplasm to regions of plasma membrane ruffling and prevents the binding and substrate specificity regulation by phospholipids (PubMed:19673492). In brain, phosphorylated by FYN and SRC (By similarity). During focal adhesion formation, phosphorylated by MAPK1 and MAPK3 at the C-terminal region, probably at Ser-1451, Ser-1476, Thr-1480 and Ser-1483. Phosphorylation by MAPK1 and MAPK3 inhibits GAP function and localizes ARGHAP35 away from newly forming focal adhesions and stress fibers in cells spreading on fibronectin (By similarity). Phosphorylation at Ser-1476 and Thr-1480 by GSK3B requires priming by MAPK and inhibits RhoGAP activity and modulates polarized cell migration (By similarity).

Similarity: N-terminal part (1-266) has GTPase activity. Required for proper cellular localization. The pG1 pseudoGTPase domain does not bind GTP.

NCBI AND UNIPROT INFORMATION

NCBI GI #	150417981
NCBI GeneID	2909
NCBI Accession #	NP_004482.4
NCBI GenBank Nucleotide #	NM_004491.4
UniProt Accession #	Q9NRY4; Q14452; Q9C0E1; A7E2A4
Molecular Weight	Observed: 155 kDa Predicted: 171 kDa
NCBI Official Full Name	rho GTPase-activating protein 35

NCBI Official Synonym Full Names	Rho GTPase activating protein 35
NCBI Official Symbol	ARHGAP35
NCBI Official Synonym Symbols	GRF-1; GRLF1; P190A; P190-A; p190RhoGAP; p190ARhoGAP
NCBI Protein Information	rho GTPase-activating protein 35
UniProt Protein Name	Rho GTPase-activating protein 35
UniProt Gene Name	ARHGAP35
UniProt Synonym Gene Names	GRF11 PublicationManual assertion based on opinion iniRef.6; GRF-1; p190-A

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/grf-1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/322457>