

Rabbit Ras-GRF1 Polyclonal Antibody | anti-Ras-GRF1 antibody

Phospho-Ras-GRF1 (Ser927) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329450	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Ras-GRF1; Polyclonal Antibody; Phospho-Ras-GRF1 (Ser927) Antibody; CDC25; CDC25L; GNRP; GRF1; GRF55; Guanine nucleotide exchange factor; Guanine nucleotide releasing factor 55KD; Guanine nucleotide releasing protein; guanine nucleotide-releasing factor 1; Guanine nucleotide-releasing protein; H GRF55; HGRF55; PP13187; Ras protein specific guanine nucleotide releasing factor 1; Ras specific guanine nucleotide releasing factor; Ras specific guanine nucleotide releasing factor CDC25 homolog; Ras specific nucleotide exchange factor CDC25; Ras-specific guanine nucleotide-releasing factor 1; Ras-specific nucleotide exchange factor CDC25; RASGRF1; RGRF1_HUMAN; anti-Ras-GRF1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Ras-GRF1 (Ser927) Antibody detects endogenous levels of Ras-GRF1 only when phosphorylated at Ser927.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Ras-GRF1 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Ras-GRF1 around the phosphorylation site of Ser927.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by PLK2, leading to ubiquitination and degradation by the proteasome. Ubiquitinated and degraded following phosphorylation by PLK2. Phosphorylated by SRC and LCK. Phosphorylation by LCK increases its capacity to stimulate the GDP/GTP exchange on Ras, whereas its phosphorylation by SRC seems not to have an effect on stimulation activity.
Subunit Structure	Homooligomer and heterooligomer with RASGRF2. Interacts with USP8, thereby regulating its stability (By similarity).
Similarity	The DH (DBL-homology) domain mediates interaction with RASGRF2.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

At 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)

Staining Rat heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from Human hippocampus, using Phospho-Ras-GRF1 (Ser927) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-Ras-GRF1 antibody	Promotes the exchange of Ras-bound GDP by GTP.
--	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	24797099
NCBI GeneID	5923
NCBI Accession #	NP_002882.3
NCBI GenBank Nucleotide #	NM_002891.4
UniProt Accession #	Q13972; Q16027; F8VPA5; H0YKF2; J3KQP9
Molecular Weight	143,218 Da
NCBI Official Full Name	ras-specific guanine nucleotide-releasing factor 1 isoform 1
NCBI Official Synonym Full Names	Ras protein-specific guanine nucleotide-releasing factor 1
NCBI Official Symbol	RASGRF1
NCBI Official Synonym Symbols	GNRP; GRF1; CDC25; GRF55; CDC25L; H-GRF55; PP13187; ras-GRF1
NCBI Protein Information	ras-specific guanine nucleotide-releasing factor 1; guanine nucleotide exchange factor; guanine nucleotide-releasing protein; guanine nucleotide-releasing factor, 55 kD; Ras-specific nucleotide exchange factor CDC25; Ras-specific guanine nucleotide-releas
UniProt Protein Name	Ras-specific guanine nucleotide-releasing factor 1
UniProt Gene Name	RASGRF1
UniProt Synonym Gene Names	CDC25; GNRP; GRF1; Ras-GRF1; GNRP
UniProt Entry Name	RGRF1_HUMAN

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.