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phospho-RASGRF1 (Ser929) Rabbit pAb

Catalog # AP100226

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q13972
Other Accession	Q13972
Reactivity	Rat
Predicted	Pig, Human, Mouse, Chicken, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	145234
Physical State	Liquid
Immunogen	KLH conjugated Synthesised phosphopeptide derived from human RasGRF1 around the phosphorylation site of Ser929
Epitope Specificity	RM(p-S)LA
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 DH (DBL-homology) domain. Contains 1 IQ domain. Contains 1 N-terminal Ras-GEF domain. Contains 2 PH domains. Contains 1 Ras-GEF domain.
SUBUNIT	Homooligomer and heterooligomer with RASGRF2. Interacts with USP8, thereby regulating its stability.
Post-translational modifications	Phosphorylated by PLK2, leading to ubiquitination and degradation by the proteasome. Ubiquitinated and degraded following phosphorylation by PLK2 By similarity). 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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a guanine nucleotide exchange factor (GEF) similar to the Saccharomyces cerevisiae CDC25 gene product. Functional analysis has demonstrated that this protein stimulates the dissociation of GDP from RAS protein. The studies of the similar gene in mouse suggested that the Ras-GEF activity of this protein in brain can be activated by Ca2+ influx, muscarinic receptors, and G protein beta-gamma subunit. Mouse studies also indicated that the Ras-GEF signaling pathway mediated by this protein may be important for long-term memory. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Mar 2009]

Additional Information

Gene ID	5923
Other Names	CDC25; CDC25L; GNRP; GRF1; GRF55; H-GRF55; PP13187; ras-GRF1; P140

	RAS-GRF; RGRF1_HUMAN; RASGRF1; Guanine nucleotide-releasing protein (GNRP); Ras-specific nucleotide exchange factor CDC25; RGRF1_RAT; Ras protein specific guanine nucleotide releasing factor 1; CDC25 like (S. cerevisiae); RASGRF1 (phospho-S929); p-RASGRF1; phospho-RASGRF1; RASGRF1 (phospho-Ser929)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	RASGRF1
Synonyms	CDC25, GNRP, GRF1
Function	Promotes the exchange of Ras-bound GDP by GTP.

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