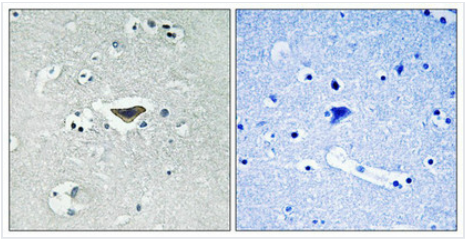
RASGRF1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RASGRF1, Polyclonal Antibody
Full Product Name	Phospho-RASGRF1 (Ser916) Antibody
Product Gene Name	anti-RASGRF1 antibody
Product Synonym Names	CDC25; GNRP; GRF1; RASGRF1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse, Rat
Form/Format	Liquid; Rabbit IgG In Phosphate Buffered Saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography usin
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	143,218 Da
OMIM	606600
3D Structure	ModBase 3D Structure for Q13972
Immunogen	Peptide sequence around phosphorylation site of Serine 916(N-E-G(p)-T P) derived from Human Ras-GRF1.
Immunogen Species	Mouse
Conjugate	Non-conjugated
Product Categories/Family for anti-RASGRF1 antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RASGRF1 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-RASGRF1 antibody	IHC: 1:50-1:100
Related Product Information for anti-RASGRF1 antibody	MBS7133107 is an antibody targeting RASGRF1. Also known as Phospho-RASGRF1 (Ser916) Antibody. Reactive in Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-RASGRF1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunohistochemistry (IHC) of anti-RASGRF1 antibody
Immunohistochemical analysis of paraffin-embedded human brain tissue using Ras-GRF1 (Phospho-Ser916) antibody (left)or the same antibody preincubated with blocking peptide (right).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RASGRF1. It may not necessarily be applicable to this product.

NCBI GI #	24797099
NCBI GeneID	5923
NCBI Accession #	NP_002882.3
UniProt Primary Accession #	Q13972
UniProt Secondary Accession #	Q16027; F8VPA5; H0YKF2; J3KQP9
UniProt Related Accession #	Q13972
GenBank Nucleotide #	NM_002891.4
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
UniProt Protein Name	Ras-specific guanine nucleotide-releasing factor 1
UniProt Synonym Protein Names	Guanine nucleotide-releasing protein; GNRP; Ras-specific nucleotide exchange factor CDC25
Protein Family	Ras-specific guanine nucleotide-releasing factor
UniProt Gene Name	RASGRF1
UniProt Synonym Gene Names	CDC25; GNRP; GRF1; Ras-GRF1; GNRP
UniProt Entry Name	RGRF1_HUMAN
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
NCBI Summary for RASGRF1	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]

UniProt Comments for RASGRF1	RASGRF1: a guanine nucleotide exchange factor (GEF). Stimulates the dissociation of GDP from RAS protein. Activated by Ca2+ influx, muscarinic receptors, and G protein beta-gamma subunit in the mouse brain,. The signaling pathway mediated by this protein may be important for long-term memory. Two alternatively spliced variants have been reported. Protein type: GEFs, Ras; GEFs Chromosomal Location of Human Ortholog: 15q24.2 Cellular Component: neuron projection; growth cone; plasma membrane; cytosol Molecular Function: glutamate receptor binding; Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity; Ras guanyl-nucleotide exchange factor activity Biological Process: regulation of Ras protein signal transduction; synaptic transmission; regulation of Rac protein signal transduction; cell proliferation; long-term memory; small GTPase mediated signal transduction; regulation of synaptic plasticity; positive regulation of Ras protein signal transduction; signal transduction; neurite development; regulation of neuronal synaptic plasticity
Research Articles on RASGRF1	**1.** ZIC2 and RASGRF1 are susceptibility genes, not only for common myopia, but also for high myopia.
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