



# Recombinant Rat RAS guanyl-releasing protein 2 (Rasgrp2)

<b>Product Code</b>	CSB-BP019363RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P0C643
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MASTLDLDKG CTVEELLRGC IEAFDDSGKV RDPQLVRMFL MMHPWYIPSS            QLASKLLHFY QQSRKDNSNS LQVKTCHLVR YWVSAFPAEF DLNPELAEQI            KELKALLDQE GNRRHSSLID IESVPTYKWK RQVTQRNPVE QKKRKMSTLLF            DHLEPMELAE HLTYLEYRSF CKILFQDYHS FVTHGCTVDN PVLERFISLF            NSVSQWVQLM ILSKPTATQR ALVITHFVHV AEKLLQLQNF NTLMAVVGGL            SHSSISRLKE THSHVSPDTI KLWEGLTELV TATGNYSNYR RRLAACVGFR            FPILGVHLKD LVALQLALPD WLDPGRTRLN GAKMRQLFSI LEELAMVTSL            RPPVQANPDL LSLLTVSLDQ YQTEDELYQL SLQREPRSKS SPTSPTSCTP            PPRPPVLEEW TSVAKPKLDQ ALVAEHIEKM VESVFRNFDV DGDGHISQEE            FQIIRGNFPY LSAFGDLQDN QDGCISREEM ISYFLRSSSV LGGRMGFVHN            LQESNSLRPV ACRHCKALIL GIYKQGLKCR ACGVNCHKQC KDRLSVECCR            RAQSVSLEGS APSPSPHTH HRAFSFSLPR PGRRSSRPPE IREEEVQTV            DGVFDIHL</p>
<b>Source</b>	Baculovirus
<b>Target Names</b>	Rasgrp2
<b>Protein Names</b>	Recommended name: RAS guanyl-releasing protein 2 Alternative name(s): Calcium and DAG-regulated guanine nucleotide exchange factor I Short name= CalDAG-GEFI
<b>Expression Region</b>	1-608
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein is a brain-enriched nucleotide exchanged factor that contains an N-terminal GEF domain, 2 tandem repeats of EF-hand calcium-binding motifs, and a C-terminal diacylglycerol/phorbol ester-binding domain. This protein can activate small GTPases, including RAS and RAP1/RAS3. The nucleotide exchange activity of this protein can be stimulated by calcium and diacylglycerol. Three alternatively spliced transcript variants encoding the same protein have been found for this gene.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the



contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.