

Recombinant Human RAPGEF1 293 Cell Lysate

Cat. No. RAPGEF1-2522HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for Rap guanine nucleotide exchange factor (GEF) 1 (RAPGEF1), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[RAPGEF1](#) Rap guanine nucleotide exchange factor (GEF) 1 [Homo sapiens]

Official Symbol

RAPGEF1

Synonyms

RAPGEF1; Rap guanine nucleotide exchange factor (GEF) 1; GRF2, guanine nucleotide releasing factor 2 (specific for crk proto oncogene); rap guanine nucleotide exchange factor 1; C3G; CRK SH3-binding GNRP; guanine nucleotide-releasing factor 2 (specific for crk proto-oncogene); GRF2; DKFZp781P1719;

Gene ID

[2889](#)

mRNA Refseq

[NM_198679](#)

Protein Refseq

[NP_941372](#)

MIM

[600303](#)

UniProt ID

[Q13905](#)

Chromosome Location

9q34.3

Pathway

ARMS-mediated activation, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Downstream signal transduction, organism-specific

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biosystem; E-cadherin signaling in the nascent adherens junction, organism-specific biosystem; EPO signaling pathway, organism-specific biosystem; Focal Adhesion, organism-specific biosystem;

Function

SH3 domain binding; guanyl-nucleotide exchange factor activity; protein binding;

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