

Recombinant Human ARHGEF4 293 Cell Lysate

Cat. No. ARHGEF4-8730HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for Rho guanine nucleotide exchange factor (GEF) 4 (ARHGEF4), transcript variant 1 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 [ARHGEF4 Rho guanine nucleotide exchange factor \(GEF\) 4 \[Homo sapiens \]](#)

Official Symbol ARHGEF4

Synonyms ARHGEF4; Rho guanine nucleotide exchange factor (GEF) 4; rho guanine nucleotide exchange factor 4; APC stimulated guanine nucleotide exchange factor; ASEF; KIAA1112; STM6; APC-stimulated guanine nucleotide exchange factor 1; GEF4; ASEF1;

Gene ID [50649](#)

mRNA Refseq [NM_015320](#)

Protein Refseq [NP_056135](#)

MIM [605216](#)

UniProt ID [Q9NR80](#)

Chromosome Location 2q22

Pathway Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; NRAGE signals death through JNK,

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organism-specific biosystem; Regulation of Actin Cytoskeleton, organism-specific biosystem; Regulation of actin cytoskeleton, organism-specific biosystem; Regulation of actin cytoskeleton, conserved biosystem;

Function

Rac guanyl-nucleotide exchange factor activity; Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity; protein binding; protein domain specific binding;

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