

Recombinant Human ARHGEF9 293 Cell Lysate

Cat. No. ARHGEF9-8728HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for Cdc42 guanine nucleotide exchange factor (GEF) 9 (ARHGEF9) 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	ARHGEF9 Cdc42 guanine nucleotide exchange factor (GEF) 9 [Homo sapiens]
Official Symbol	ARHGEF9
Synonyms	ARHGEF9; Cdc42 guanine nucleotide exchange factor (GEF) 9; rho guanine nucleotide exchange factor 9; collybistin; KIAA0424; PEM 2; PEM-2 homolog; hPEM-2 collybistin; rac/Cdc42 guanine nucleotide exchange factor 9; PEM2; EIEE8; PEM-2; HPEM-2; COLLYBISTIN;
Gene ID	23229
mRNA Refseq	NM_001173479
Protein Refseq	NP_001166950
MIM	300429
UniProt ID	O43307
Chromosome Location	Xq11.1
Pathway	Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem; GABA A receptor activation, organism-specific biosystem; GABA receptor activation, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; Ion channel transport, organism-specific biosystem; Ligand-gated ion channel transport,

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organism-specific biosystem;

Function

Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity;

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