

Recombinant Human ARHGEF6 cell lysate

Cat. No. ARHGEF6-119HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Description	Rho GTPases play a fundamental role in numerous cellular processes that are initiated by extracellular stimuli that work through G protein coupled receptors. The encoded protein belongs to a family of cytoplasmic proteins that activate the Ras-like family of Rho proteins by exchanging bound GDP for GTP. It may form a complex with G proteins and stimulate Rho-dependent signals. This protein is activated by PI3-kinase. Mutations in this gene can cause X-chromosomal non-specific mental retardation.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Gene Name	ARHGEF6 Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 [Homo sapiens]
Official Symbol	ARHGEF6
Synonyms	ARHGEF6; Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6; mental retardation, X linked 46 , MRX46; rho guanine nucleotide exchange factor 6; alpha

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PIX; alphaPIX; Cool 2; Cool2; KIAA0006; PAK interacting exchange factor; alpha; Rac/Cdc42 guanine exchange factor (GEF) 6; PAK-interacting exchange factor alpha; PAK-interacting exchange factor, alpha; rac/Cdc42 guanine nucleotide exchange factor 6; PIXA; COOL2; MRX46; Cool-2; alpha-PIX;

Gene ID [9459](#)

mRNA Refseq [NM_004840](#)

Protein Refseq [NP_004831](#)

MIM [300267](#)

UniProt ID [Q15052](#)

Chromosome Location Xq26

Pathway CDC42 signaling events, organism-specific biosystem; Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-extracellular matrix interactions, organism-specific biosystem; Class I PI3K signaling events, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem;

Function GTPase activator activity; Rho guanyl-nucleotide exchange factor activity; guanyl-nucleotide exchange factor activity; protein binding;

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