Recombinant Human PAK3 cell lysate

Cat. No. PAK3-517HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PAK3 derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer.Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.2. Re-dissolve the pellet using 200μL pure water and boiled for 2-5 min.3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.Notes:The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	PAK3 p21 protein (Cdc42/Rac)-activated kinase 3 [Homo sapiens]
Official Symbol	PAK3
Synonyms	PAK3; p21 protein (Cdc42/Rac)-activated kinase 3; mental retardation, X linked 47 , MRX30, MRX47, p21 (CDKN1A) activated kinase 3; serine/threonine-protein kinase PAK 3; bPAK; hPAK3; PAK-3; beta-PAK; oligophrenin-3; p21-activated kinase 3; p21 (CDKN1A)-activated kinase 3; MRX30; MRX47; OPHN3; CDKN1A; PAK3beta;
Gene ID	5063
mRNA Refseq	NM_001128166
Protein Refseq	NP_001121638
MIM	300142
UniProt ID	O75914

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Chromosome Location	Xq22.3
Pathway	Activation of Rac, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem;
Function	ATP binding; MAP kinase kinase activity; SH3 domain binding; metal ion binding; nucleotide binding; protein serine/threonine kinase activity;

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