

Recombinant Human AKAP13 cell lysate

Cat. No. AKAP13-45HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Description	The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. Alternative splicing of this gene results in at least 3 transcript variants encoding different isoforms containing a dbl oncogene homology (DH) domain and a pleckstrin homology (PH) domain. The DH domain is associated with guanine nucleotide exchange activation for the Rho/Rac family of small GTP binding proteins, resulting in the conversion of the inactive GTPase to the active form capable of transducing signals. The PH domain has multiple functions. Therefore, these isoforms function as scaffolding proteins to coordinate a Rho signaling pathway and, in addition, function as protein kinase A-anchoring proteins.
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

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Gene Name	AKAP13 A kinase (PRKA) anchor protein 13 [Homo sapiens]
Official Symbol	AKAP13
Synonyms	AKAP13; A kinase (PRKA) anchor protein 13; LBC, lymphoid blast crisis oncogene; A-kinase anchor protein 13; AKAP Lbc; ARHGEF13; BRX; c lbc; HA 3; Ht31; PROTO LB; p47; AKAP-13; LBC oncogene; A-kinase anchoring protein; lymphoid blast crisis oncogene; human thyroid-anchoring protein 31; protein kinase A-anchoring protein 13; guanine nucleotide exchange factor Lbc; non-oncogenic Rho GTPase-specific GTP exchange factor; breast cancer nuclear receptor-binding auxiliary protein; LBC; HA-3; c-lbc; PRKA13; AKAP-Lbc; PROTO-LB; PROTO-LBC; FLJ11952; FLJ43341;
Gene ID	11214
mRNA Refseq	NM_006738
Protein Refseq	NP_006729
MIM	604686
UniProt ID	Q12802
Chromosome Location	15q24-q25
Pathway	Cell death signalling via NRAGE, NRIF and NADE, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; G alpha (12/13) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; NRAGE signals death through JNK, organism-specific biosystem; Regulation of RhoA activity, organism-specific biosystem; Rho GTPase cycle, organism-specific biosystem;

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Function

Rho guanyl-nucleotide exchange factor activity; cAMP-dependent protein kinase activity; guanyl-nucleotide exchange factor activity; metal ion binding; protein binding; signal transducer activity;

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