Recombinant Mouse Cdk5rap3 Protein, Myc/DDK-tagged

Cat. No. Cdk5rap3-2090M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length CDK5 regulatory subunit associated protein 3 (Cdk5rap3), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Substrate adapter for ufmylation, the covalent attachment of the ubiquitin-like modifier UFM1 to substrate proteins, in response to endoplasmic reticulum stress. Negatively regulates NF-kappa-B-mediated gene transcription through the control of RELA phosphorylation. Probable tumor suppressor initially identified as a CDK5R1 interactor controlling cell proliferation. Also regulates mitotic G2/M transition checkpoint and mitotic G2 DNA damage checkpoint. Through its interaction with CDKN2A/ARF and MDM2 may induce MDM2-dependent p53/TP53 ubiquitination, stabilization and activation in the nucleus, thereby promoting G1 cell cycle arrest and inhibition of cell proliferation. May also play a role in the rupture of the nuclear envelope during apoptosis. May regulate MAPK14 activity by regulating its dephosphorylation by PPM1D/WIP1. Required for liver development.
Molecular Mass	57 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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

Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Cdk5rap3 CDK5 regulatory subunit associated protein 3 [Mus musculus (house mouse)]
Official Symbol	Cdk5rap3
Synonyms	CDK5RAP3; CDK5 regulatory subunit associated protein 3; CDK5 regulatory subunit-associated protein 3; OK/SW-cl.114; C53; IC53; C81486; HSF-27; MST016; BC002318; MGC8303; 1810007E24Rik
Gene ID	80280
mRNA Refseq	NM_030248
Protein Refseq	NP_084524
UniProt ID	Q99LM2

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