

Product datasheet for TP511192

Ccar2 (NM_146055) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cell cycle activator and apoptosis regulator 2 (Ccar2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211192 protein sequence Red=Cloning site Green=Tags(s)

MSQFKRQRINPLPGGRNFGAASTSLLGPPPGLLTPPVATDLSQNAHRLQSGEKQRVFTGIVTSLHDYFG
VVDEEVFFQLSVVKGRLPQLGEKVLVKAAYNPGQAVPWNVAVKVQTLNQLKSPAPPLHVAALGQKQG
ILGAQPQLIFQPHRIPPLFPQKPLSLFQTSHTLHLSHLNRFARGPHGRDLQGRSDDYDSKRRKQRAGGE
PWGAKKPRHDLSPYRVHLTPYTVDSPTCDFLELQRRYRSLVPSDFLSVHLSWLSAFPLGQPFSLHHP
IQVSSEKEAAPDTGAEPSPEDSDPTYSSKVLSSPGLLEEFYRCCMLFVDDMAEPRETPEHPLKQLKFL
GRKEEEAVLVGGWSPSLDGLDPQADPQVLVRTAIRCAQAQTGIDLSTCTKWWRFAEFQYLQPGPPRQLH
TVVVYLPDVWVTIMPTLEEWEALCQQKATEAAPQPHEASGEAEATEQAPDVSEQADTSKQNTETMEATTQ
DVDTDLPEAPPPLEPAVMARPCVNLVSLYGVIEDRRPKERISFEVVVLAELFVEMLQRDFGYRIYKTL
SLPEKVVSPPEPEKEEAKEEDAVKEEEAVKKEAVKSKDEVQNEGTAAESDPLKEDGLPKRPSSGGEE
EEKARGEAAEDLCMALDPDLLLLRDDGEDEFAGAKLEETEVRVSVASNQSEMEYSSLQDMPKELDPSTVL
PLDCLLAFVFFDANWCGYLHRRDLERVLLTLGIRLSAEQAKQLVSRVVAQNICQYRSLQYSRAEVLDDGL
PEDVLFGNLDLLPPSGKSTKPGAAPTEHKGLVPHNGSLINVGSLQRAEQQDSGRLYLENKIHTLELKL
ESHNRFSATEVTNKTAAEMQELRARLAEAEETARTAERQKNQLQRQMDFRRRLTPLHLEMQRIVEKAD
SWVEKEEPTPSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	103 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_666167
Locus ID:	219158
UniProt ID:	Q8VDP4
RefSeq Size:	3705
Cytogenetics:	14 D2
RefSeq ORF:	2769
Synonyms:	2610301G19Rik; Dbc1; mKIAA1967
Summary:	<p>Core component of the DBIRD complex, a multiprotein complex that acts at the interface between core mRNP particles and RNA polymerase II (RNAPII) and integrates transcript elongation with the regulation of alternative splicing: the DBIRD complex affects local transcript elongation rates and alternative splicing of a large set of exons embedded in (A + T)-rich DNA regions. Inhibits SIRT1 deacetylase activity leading to increasing levels of p53/TP53 acetylation and p53-mediated apoptosis (By similarity). As part of a histone H3-specific methyltransferase complex may mediate ligand-dependent transcriptional activation by nuclear hormone receptors (By similarity). Inhibits SUV39H1 methyltransferase activity. Plays a critical role in maintaining genomic stability and cellular integrity following UV-induced genotoxic stress (By similarity) Regulates the circadian expression of the core clock components NR1D1 and ARNTL/BMAL1. Enhances the transcriptional repressor activity of NR1D1 through stabilization of NR1D1 protein levels by preventing its ubiquitination and subsequent degradation. Acts as a regulator of PCK1 expression and gluconeogenesis by a mechanism that involves, at least in part, both NR1D1 and SIRT1 (PubMed:24415752). Negatively regulates the deacetylase activity of HDAC3 and can alter its subcellular localization (PubMed:21030595). Plays an important role in tumor suppression through p53/TP53 regulation; stabilizes p53/TP53 by affecting its interaction with ubiquitin ligase MDM2 (PubMed:25732823). Represses the ligand-dependent transcriptional activation function of ESR2. Positively regulates the beta-catenin pathway (canonical Wnt signaling pathway) and is required for MCC-mediated repression of the beta-catenin pathway. Represses ligand-dependent transcriptional activation function of NR1H2 and NR1H3 and inhibits the interaction of SIRT1 with NR1H3. Represses the transcriptional activator activity of BRCA1. Inhibits SIRT1 in a CHEK2 and PSEM3-dependent manner and inhibits the activity of CHEK2 in vitro (By similarity).[UniProtKB/Swiss-Prot Function]</p>