

E3 ubiquitin-protein ligase Mdm2 Recombinant Protein | Mdm2 recombinant protein

Recombinant Mouse E3 ubiquitin-protein ligase Mdm2

CATALOG #
AAA113951

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

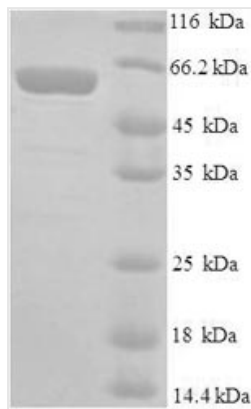
PRODUCT SYNONYMS

E3 ubiquitin-protein ligase Mdm2; Recombinant Mouse E3 ubiquitin-protein ligase Mdm2; Double minute 2 protein; Oncoprotein Mdm2; p53-binding protein Mdm2; Mdm2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-489. Full Length
Sequence	MCNTNMSVST EGAASTSQIP ASEQETLVRP KPLLLKLLKS VGAQNDTYTM KEIIFYIGQY IMTKRLYDEK QQHIVYCSND LLGDVFGVPS FSVKEHRKIY AMIYRNLVAV SQQDSGTSL S ESRRQPEGGS DLKDPLQAPP EEKPSSSDLI SRLSTSSRRR SISETEENTD ELPGERHRKR RRSLSFDP SL GLCELREMC S GGSSSSSSSS SESTETPSHQ DLDDGVSEHS GDCLDQDSVS DQFSVEFEVE SLDSEDYSLS DEGHESD ED DEVYRVTVYQ TGESDTSFE GDPEISLADY WKCTSCNEMN PPLPSHKRC WTLRENWLPD DKGKDKVEIS EKAKLENSAQ AEEGLDVPDG KKL TENDAKE PCAEEDSEEK AEQTPLSQES DDYSQPSTSS SIVYSSQESV KELKEETQDK DESVESFSL NAI EPCVICQ GRPKNGCIVH GKTGHLMSCF TCAKKLKKRN KPCPVCRQPI QMIVLTYFN
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for Mdm2 recombinant protein	E3 ubiquitin-protein ligase that mediates ubiquitination of p53/TP53, leading to its degradation by the proteasome. Inhibits p53/TP53- and p73/TP73-mediated cell cycle arrest and apoptosis by binding its transcriptional activation domain. Also acts as a ubiquitin ligase E3 toward itself and ARRB1. Permits the nuclear export of p53/TP53. Promotes proteasome-dependent ubiquitin-independent degradation of retinoblastoma RB1 protein. Inhibits DAXX-mediated apoptosis by inducing its ubiquitination and degradation. Component of the TRIM28/KAP1-MDM2-p53/TP53 complex involved in stabilizing p53/TP53. Also component of the TRIM28/KAP1-ERBB4-MDM2 complex which links growth factor and DNA damage response pathways. Mediates ubiquitination and subsequent proteasome degradation of DYRK2 in nucleus. Ubiquitinates IGF1R and SNAI1 and promotes th to proteasomal degradation.
References	Tumorigenic potential associated with enhanced expression of a gene that is amplified in a mouse tumor cell line.Fakharzadeh S.S., Trusko S.P., George D.L.EMBO J. 10:1565-1569(1991) Genomic organization of the mouse double minute 2 gene.Jones S.N., Ansari-Lari M.A., Hancock A.R., Jones W.J., Gibbs R.A., Donehower L.A., Bradley A.Gene 175:209-213(1996) The organization and expression of the mdm2 gene.de Oca Luna R.M., Tabor A.D., Eberspaecher H., Hulboy D.L., Worth L.L., Colman M.S., Finlay C.A., Lozano G.Genomics 33:352-357(1996) Multiple murine double minute gene 2 (MDM2) proteins are induced by ultraviolet light.Saucedo L.J., Myers C.D., Perry M.E.J. Biol. Chem. 274:8161-8168(1999) Cooperative signals governing ARF-mdm2 interaction and nucleolar localization of the complex.Weber J.D., Kuo M.-L., Bothner B., DiGiammarino E.L., Kriwacki R.W., Roussel M.F., Sherr C.J.Mol. Cell. Biol. 20:2517-2528(2000) Rapid ATM-dependent phosphorylation of MDM2 precedes p53 accumulation in response to DNA damage.Khosravi R., Maya R., Gottlieb T., Oren M., Shiloh Y., Shkedy D.Proc. Natl. Acad. Sci. U.S.A. 96:14973-14977(1999) A novel cellular protein (MTBP) binds to MDM2 and induces a G1 arrest that is suppressed by MDM2.Boyd M.T., Vlatkovic N., Haines D.S.J. Biol. Chem. 275:31883-31890(2000) Regulation of receptor fate by ubiquitination of activated beta 2-adrenergic receptor and beta-arrestin.Shenoy S.K., McDonald P.H., Kohout T.A., Lefkowitz R.J.Science 294:1307-1313(2001) PML regulates p53 stability by sequestering Mdm2 to the nucleolus.Bernardi R., Scaglioni P.P., Bergmann S., Horn H.F., Vousden K.H., Pandolfi P.P.Nat. Cell Biol. 6:665-672(2004) A novel nuclear interactor of ARF and MDM2 (NIAM) that maintains chromosomal stability.Tompkins V.S., Hagen J., Frazier A.A., Lushnikova T., Fitzgerald M.P., di Tommaso A.D., Ladeveze V., Domann F.E., Eischen C.M., Quelle D.E.J. Biol. Chem. 282:1322-1333(2007)

NCBI AND UNIPROT INFORMATION

NCBI GI #	570700841
NCBI GeneID	17246
NCBI Accession #	NP_001275515.1
NCBI GenBank Nucleotide #	NM_001288586.1
UniProt Accession #	P23804; Q61040; Q64330; Q91XK7
Molecular Weight	56.6 kDa
NCBI Official Full Name	E3 ubiquitin-protein ligase Mdm2
NCBI Official Synonym Full Names	transformed mouse 3T3 cell double minute 2
NCBI Official Symbol	Mdm2
NCBI Official Synonym Symbols	Mdm-2; AA415488; 1700007J15Rik
NCBI Protein Information	E3 ubiquitin-protein ligase Mdm2
UniProt Protein Name	E3 ubiquitin-protein ligase Mdm2
UniProt Gene Name	Mdm2
UniProt Entry Name	MDM2_MOUSE

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