Recombinant Human Mdm2 p53 Binding Protein Homolog, GST-tagged

Cat. No. MDM2-1063H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MDM2 (202-end) was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	Human
ProteinLength	202-end a.a.
Description	MDM2 is a nuclear phosphoprotein that binds and inhibits transactivation by p53, as part of an autoregulatory negative feedback loop (1). Overexpression of the MDM2 gene product can lead to excessive inactivation of p53 thereby diminishing its tumor suppressor function. The inactivation of p53 is mediated by the E3 ubiquitin ligase activity of MDM2 which targets p53 for proteasomal degradation. MDM2 also affects the cell cycle, apoptosis, and tumorigenesis through interactions with other proteins, including retinoblastoma 1 and ribosomal protein L5 (2). Amplification of MDM2 is frequently observed in human sarcomas and this is consistent with the hypothesis that MDM2 binds to p53 which then leads to escape from p53-regulated growth control.
Applications	Western Blot
Molecular Weight	~84 kDa

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

Purity	>75%
Concentration	0.2ug/ul
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25%glycerol.
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	AKT phosphorylates targets in the cytosol; Bladder cancer; Androgen Receptor Signaling Pathway; Cell Cycle Checkpoints; Apoptosis; Cell cycle; Aurora A signaling; Chronic myeloid leukemia; Direct p53 effectors; Endocytosis; Downstream signaling of activated FGFR; ErbB signaling pathway; G1 to S cell cycle control; G1/S DNA Damage Checkpoints; Glioma; Glucocorticoid receptor regulatory network; Glutamate Binding, Activation of AMPA Receptors and Synaptic Plasticity; Melanoma; NGF signalling via TRKA from the plasma membrane; Neuroransmitter Receptor Binding And Downstream Transmission In The Postsynaptic Cell; PI-3K cascade; PI3K/AKT activation; Signaling by FGFR; PIP3 activates AKT signaling; Regulation of retinoblastoma protein; Sumoylation by RanBP2 regulates transcriptional repression

GENE INFORMATION

Gene Name	MDM2 Mdm2 p53 binding protein homolog (mouse) [Homo sapiens]
Official Symbol	MDM2
Synonyms	MDM2; Mdm2 p53 binding protein homolog (mouse); HDMX; hdm2; MGC5370; MGC71221; E3 ubiquitin-protein ligase Mdm2; oncoprotein Mdm2; MDM2 variant FB28; MDM2 variant FB30; OTTHUMP00000183488; OTTHUMP00000183489;

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	OTTHUMP00000183495; OTTHUMP00000183496; OTTHUMP00000240280; OTTHUMP00000240285; OTTHUMP00000240290; ubiquitin-protein ligase E3 Mdm2; double minute 2 human homolog of p53-binding protein; Mdm2, transformed 3T3 cell double minute 2, p53 binding protein; p53-binding protein Mdm2; Oncoprotein Mdm2; mouse double minute 2, human homolog of; p53-binding protein; ubiquitin-protein ligase E3 Mdm2; EC 6.3.2; Double minute 2 protein
Gene ID	4193
mRNA Refseq	NM_002392
Protein Refseq	NP_002383
MIM	164785
UniProt ID	Q00987
Chromosome Location	12q14.3-q15
Function	zinc ion binding; ubiquitin-protein ligase activity; protein binding; p53 binding; metal ion binding; ligase activity; enzyme binding
Solution structure of Mdm2.	

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