

Human Mdm2 p53 Binding Protein Homolog (MDM2) Protein (Active)

Catalogue No.:abx651414





Reconstitution:	To keep the original salt concentration, we recommend reconstituting to the original concentration pri to lyophilization (see Concentration) in ddH_2O . If a lower concentration is required, dilute in 20 mM Tr 150 mM NaCl, pH 8.0. If a higher concentration is required, the product can be reconstituted directly 20 mM Tris, 150 mM NaCl, pH 8.0, though please note that this will change the overall salt concentration. The stock concentration should be between 0.1-1.0 mg/ml. Do not vortex.	or is, in
Storage:	Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.	
UniProt Primary AC:	Q00987 (<u>UniProt</u> , <u>ExPASy</u>)	
Gene Symbol:	MDM2	
GenelD:	4193	
OMIM:	164785	
HGNC:	6973	
KEGG:	hsa:4193	
Ensembl:	ENSG00000135679	
Molecular Weight:	 Calculated MW: 39.7 kDa Observed MW (SDS-PAGE): 44 kDa Possible reasons why the actual band size differs from the predicted band size: Splice variants. Alternative splicing may create different sized proteins from the same gene. Relative charge. The composition of amino acids may affect the charge of the protein. Post-translational modification. Phosphorylation, glycoslyation, methylation etc. may affect the ban size. Post-translational cleavage. Many proteins are synthesised as pro-proteins, and then cleaved to git the active form. Polymerisation of the target protein. Dimerisation, multimerisation etc. will increase the band size observed. 	d ve
Sequence Fragment:	Met1-Pro218	
Sequence:	MCNTNMSVPT DGAVTTSQIP ASEQETLDYW KCTSCNEMNP PLPSHCNRCW ALRENWLPED KGKDKGEISE KAKLENSTQA EEGFDVPDCK KTIVNDSRES CVEENDDKIT QASQSQESED YSQPSTSSSI IYSSQEDVKE FEREETQDKE ESVESSLPLN AIEPCVICQG RPKNGCIVHG KTGHLMACFT CAKKLKKRNK PCPVCRQPIQ MIVLTYFP	
Tag:	N-terminal His tag	
Buffer:	Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.05% Sarcosyl, 5% Trehalose.	
Activity:	Active	
v1.0.0	Abbexa LTD, Cambridge, UK · Phone: +44 (0) 1223 755950 · Fax: +44 (0) 1223 755951	2 of 3



Biological Activity: Mouse double minute 2 homolog (MDM2), also known as Mdm2 p53 Binding Protein Homolog or E3 ubiquitin-protein ligase Mdm2, is a cellular oncoprotein that recognizes the N-terminal trans-activation domain (TAD) of the p53 tumor suppressor and as an inhibitor of p53 transcriptional activation. The human homolog of this protein can also be known as Hdm2. S100 Calcium Binding Protein (S100) has been identified as an interactor of MDM2, thus a binding ELISA assay was conducted to detect the interaction of recombinant human MDM2 and recombinant human S100. Briefly, MDM2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to S100coated microplate wells and incubated for 2 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-MDM2 polyclonal antibody, then aspirated and washed 3 times. After incubation with HRPconjugated secondary antibody, wells were aspirated and washed 3 times. TMB substrate solution was added and wells were incubated for 15-25 minutes at 37 °C. Finally, 50 µl stop solution was added to the wells and the absorbance was read at 450 nm immediately. The binding activity of MDM2 and S100 is shown in Figure 3.

Concentration: Prior to lyophilization: 200 µg/ml

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