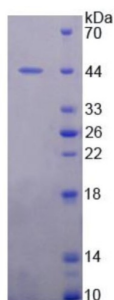
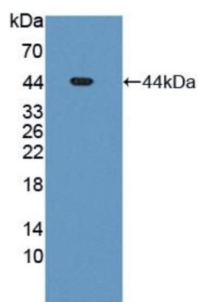


Human Mdm2 p53 Binding Protein Homolog (MDM2) Protein (Active)

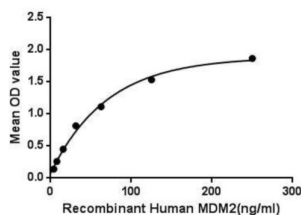
Catalogue No.: abx651414



SDS-PAGE analysis of active recombinant Human MDM2.



Western blot analysis of recombinant Human MDM2, using Rabbit Anti-Human MDM2 antibody ([abx128108](#)).



Binding activity of MDM2 with S100 (see Biological Activity section for experimental details).

Human Mdm2 p53 Binding Protein Homolog (MDM2) Protein (Active) is an active Human protein expressed in E. coli.

Target: Mdm2 p53 Binding Protein Homolog (MDM2)

Origin: Human

Tested Applications: WB, SDS-PAGE

Host: E. coli

Conjugation: Unconjugated

Form: Lyophilized

Purity: > 95%

Datasheet

Version: 4.0.0
Revision date: 17 Jun 2025



Reconstitution:	To keep the original salt concentration, we recommend reconstituting to the original concentration prior to lyophilization (see Concentration) in ddH ₂ O. If a lower concentration is required, dilute in 20 mM Tris, 150 mM NaCl, pH 8.0. If a higher concentration is required, the product can be reconstituted directly in 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.
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 (UniProt , ExPASy)
Gene Symbol:	MDM2
GeneID:	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: 1. Splice variants. Alternative splicing may create different sized proteins from the same gene. 2. Relative charge. The composition of amino acids may affect the charge of the protein. 3. Post-translational modification. Phosphorylation, glycosylation, methylation etc. may affect the band size. 4. Post-translational cleavage. Many proteins are synthesised as pro-proteins, and then cleaved to give the active form. 5. Polymerisation of the target protein. Dimerisation, multimerisation etc. will increase the band size observed.
Sequence Fragment:	Met1-Pro218
Sequence:	MCNTNMSVPT DGA VTTSQIP ASEQETLDYW KCTSCNEMNP PLPSHCNRCW ALRENWLPED KGKDKGEISE KAKLENSTQA EEGFDVPDCK KTI V NDSRES CVEENDDKIT QASQSQESED YSQPSTSSSI IYSSQEDVKE FEREETQDKE ESVESSLPLN AIEPCVICQG RPKNGCIVHG KTGHLMACFT CAKKLKRNK 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

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 S100-coated 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 HRP-conjugated 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

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only