



MONOCLONAL ANTIBODY

For research use only. Not for clinical diagnosis.

Catalog No. BAM-71-141-EX

Anti-MdmX (Mdm4)/HdmX p-Ser367

BACKGROUND

MdmX (synonyms: Mdm4, HdmX) inhibits p53-and p73-dependent cell cycle arrest and apoptosis by binding to the transcription activation domains of these proteins. MdmX consists of 490 amino acids with the molecular weight of 54,864 and contains a RING-finger domain and a nuclear transport signal. It is known that the protein migrates aberrantly in SDS-PAGE at the position of an 80-kDa protein. MdmX is phosphorylated at Ser367 by Chk2 kinase downstream of ATM in response to DNA damage, and as a result, it binds to14-3-3 and is transported into nucleus where it is degraded by Mdm2. This process activates the p53 functions (1, 2 and 3).

This product is Mouse monoclonal antibody (clone #15) specific to the MdmX protein phosphorylated at Ser367.

Product type	Primary antibodies
Host	Mouse
Source	Monoclonal antibody raised against synthetic peptide corresponding to a sequence of human Mdmx protein surrounding phospho-Ser367.
Form	Liquid Purified monoclonal antibody (IgG) 1 mg/ml in PBS (-), 50% glycerol
Volume	50 µg
Concentration	
Specificity	
Antigen	A synthetic peptide corresponding to a sequence of human Mdmx protein surrounding phospho-Ser367
Isotype	Mouse IgG2b (κ)

Application notes WB, IP, ELISA, Indirect Immuno-staining

Recommended use

Recommended dilutions

Western blotting: (~1 ug/ml)

Optimal dilutions/concentrations should be determined by the end user.

Data Link UniProtKB/Swiss-Prot [O15151](#) (MDM4_HUMAN)

Staining Pattern

Cross reactivity

Storage

-20°C (Long period -70°C)

References

This product has been used for the following references.

1. Okamoto K et al "DNA damage-induced phosphorylation of MdmX at serine 367 activates p53 by targeting Mdm2-dependent degradation" Mol Cell Biol 25:9608-9620 (2005) PMID: [16227609](#)
2. Chen L et al "ATM and Chk2-dependent phosphorylation of MDMX contribute to p53 activation after DNA damage" EMBO J 24: 3411-3422 (2005) PMID: [16163388](#)
3. Pereg Y et al "Differential roles of ATM- and Chk2 mediated phosphorylations of HdmX in response to DNA damage" Mol Cell Biol 26: 6819-6831 (2006) PMID: [16943424](#)

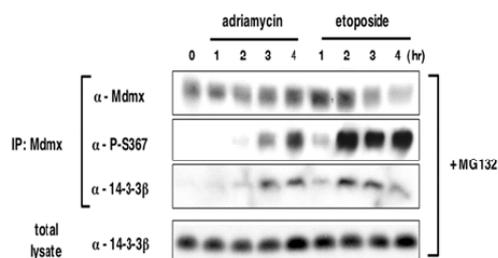


Figure 1 Induction of S367 phosphorylation after DNA damage is associated with increased binding of 14-3-3 to MdmX and accelerated MdmX degradation.

MCF cells were preincubated with the proteasome inhibitor MG132 (20 μ M) and exposed to DNA damaging agent, adriamycin (3 μ M) or etoposide (20 μ M), for the indicated periods. The cell lysates were used for immunoprecipitation with anti-MdmX antibody (D-19, Santa-Cruz) and The MdmX immunoprecipitates and the total lysate were analyzed by Western blotting using the indicated antibodies including this product (anti P-S367).

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