Anti-MdmX (Mdm4) p-Ser367 antibody、monoclonal (#15)

71-141　　50 μg

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 490amino acids with the molecular weight of 54,864 and contains a RIING-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 the result, it binds to14-3-3 and is transported into nucleus where it is
degraded by Mdm2. This process activates the p53 functions (1,2,3).

Applications:

1. Western blotting (~1 ug/ml)　2. Immunoprecipitation　3. ELISA
4. Indirect immuno-staining

Specifications

Product:: Mouse monoclonal antibody (clone #15) specific for the MdmX protein phosphorylated at Ser367.

Antigen: A synthetic peptide corresponding to a sequence of human Mdx protein surrounding phospho-Ser367

Isotype: mouse IgG2b (κ)

Form:　Purified monoclonal antibody (IgG)　1 mg/ml in PBS (-), 50% glycerol

Reaction: Human and mouse MdmX proteins phosphorylated at Ser367

Storage:　-20℃ (long period;　-70℃)

Reference: This product was used in reference1

1. Okamoto K. et al. Mol Cell Biol 25:9608 (2005)
2. Chen L. et al. EMBO J 24: 3411 (2005)
3. Pereg Y. et al. Mol Cell Biol 26: 6819 (2006)

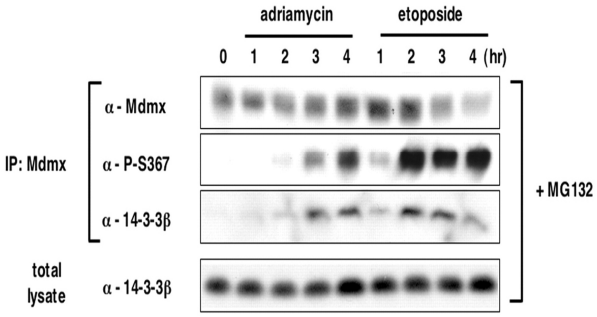

Figure　Induction　of　S367　phosphorylation afterDNA damage is associated with increased binding of 14-3-3 to MdmX and accelerated MdmX degradation.

MCF cells were preincubated with the proteasome inhibitor MG132 (20 uM) and exposed to DNA damaging agent, adriamycin (3 uM) or etoposide (20 uM), 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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