

Anti--MdmX (Mdm4) p --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 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 the result, it binds to 14-3-3 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 µg/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°C (long period; -70°C)

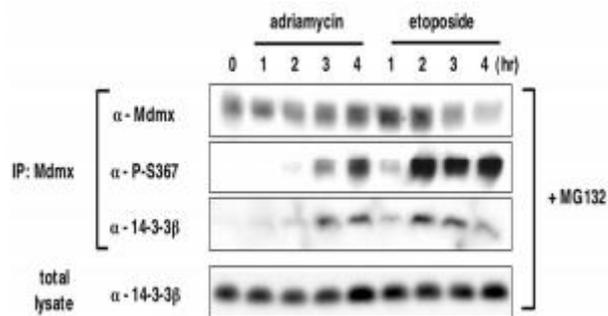
Reference: This product was used in reference 1

1. Okamoto K. et al. Mol Cell Biol 25:9608 (2005)

2. Chen L. et al. EMBO J 24: 3411 (2005)

3.3.3. Pereg Y. et al. Mol Cell Biol 26: 6819 (2006)

Figure 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).