**BACKGROUND**

p53 is the most commonly mutated gene in human cancer identified to date. Expression of p53 leads to inhibition of cell growth by preventing progression of cells from G1 to S phase of the cell cycle. Most importantly, p53 functions to cause arrest of cells in the G1 phase of the cell cycle following any exposure of cells to DNA-damaging agents. The MDM2 (murine double minute-2) protein was initially identified as an oncogene in a murine transformation system. MDM2 functions to bind p53 and block p53-mediated transactivation of cotransfected reporter constructs. The MDM2 gene is amplified in a high percentage of human sarcomas that retain wildtype p53 and tumor cells that overexpress MDM2 can tolerate high levels of p53 expression. These findings argue that MDM2 overexpression represents at least one mechanism by which p53 function can be abrogated during tumorigenesis.

**CHROMOSOMAL LOCATION**

Genetic locus: MDM2 (human) mapping to 12q15.

**SOURCE**

MDM2 (N-20) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of MDM2 of human origin.

**PRODUCT**

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-813 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

MDM2 (N-20) is recommended for detection of MDM2 and MDM2 p60 cleavage product of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

MDM2 (N-20) is also recommended for detection of MDM2 and MDM2 p60 cleavage product in additional species, including equine, canine, bovine, porcine and feline.

Suitable for use as control antibody for MDM2 siRNA (h): sc-29394, MDM2 shRNA Plasmid (h): sc-29394-SH and MDM2 shRNA (h) Lentiviral Particles: sc-29394-V.

Molecular Weight of MDM2: 90 kDa.

Molecular Weight of MDM2 cleavage product: 60 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, U-2 OS cell lysate: sc-2295 or A-673 cell lysate: sc-2414.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

MDM2 (N-20) sc-813. Western blot analysis of MDM2 expression in Jurkat whole cell lysate.

**SELECT PRODUCT CITATIONS**


