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Product datasheet for TA392916M

MDM2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000 IHC: 1:50~1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human MDM2 around the phosphorylation site of Serine 166.
Specificity:	p-MDM2 (S166) polyclonal antibody detects endogenous levels of MDM2 protein only when phosphorylated at Ser166
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 55, 90 kDa
Gene Name:	MDM2 proto-oncogene
Database Link:	Entrez Gene 4193 Human Q00987

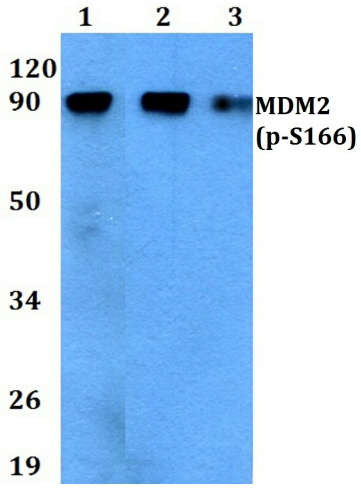
View online »

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.

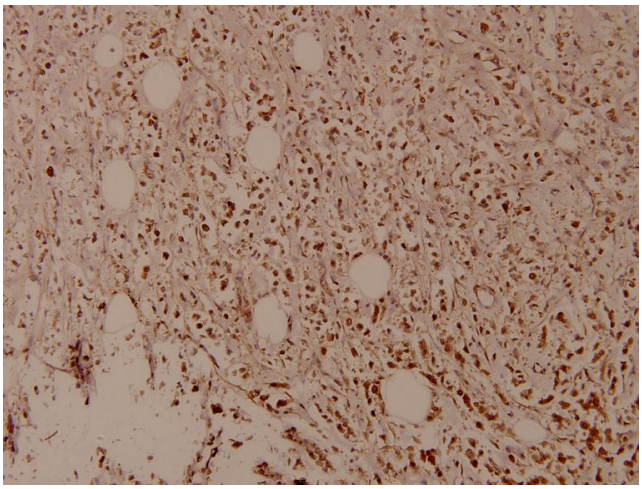
Synonyms: Double minute 2 protein; E3 ubiquitin-protein ligase Mdm2; Hdm2; MDM2; Oncoprotein Mdm2; p53-binding protein Mdm2

Note: For research use only, not for use in diagnostic procedure.

Product images:



Western blot (WB) analysis of p-MDM2 (S166) polyclonal antibody at 1:500 dilution Lane1:THP-1 cell lysate treated with EGF(0.1ng/ml,30mins) Lane2:Raw264.7 cell lysate treated with EGF(0.1ng/ml,30mins) Lane3:H9C2 cell lysate treated with EGF(0.1ng/ml,30mins)



Immunohistochemistry (IHC) analyzes of p-MDM2 (S166) pAb in paraffin-embedded human breast carcinoma tissue at 1:100.