For Research Use Only

MDM2/HDM2 Monoclonal antibody

Catalog Number:66511-1-Ig 33 Publications

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Basic Information

Catalog Number:
66511-1-Ig

Source:
Mouse

Isotype:
IgG2b

GenBank Accession Number:
NM_002392

GeneID (NCBI):
4193

UNIPROT ID:
Q00987

Full Name:
Mdm2 p53 binding protein homolog (mouse)

Calculated MW:
55 kDa

Observed MW:
40-55 kDa

Purification Method:
Protein A purification

CloneNo.:
2A6C9

Recommended Dilutions:
WB: 1:1000-1:6000
IHC: 1:150-1:600

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP

Species Specificity:
human, mouse, rat, rabbit

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : MCF-7 cells, A549 cells, mouse brain tissue, rabbit brain tissue, rat brain tissue, U-251 cells

IHC : human breast cancer tissue, human liver cancer tissue

Background Information

MDM2, also known as HDM2, is a protein of the E3 ubiquitin-ligase family. MDM2 is recognized as a proto-oncogene and is over-expressed in a wide range of human malignancies including soft tissue carcinomas and breast cancer. MDM2 can bind to the p53 tumor suppressor protein with high affinity, and negatively regulates p53 by mediating its ubiquitination and proteosomal degradation (PMID: 17000718). MDM2 has some isoforms with calculated molecular mass of 25-55kD, and can be detected as 90-97kD. In addition to full length MDM2, two lower bands (85kD and 75kD) are often observed which are likely to be produced by translation initiation at methionine codons 50 and 60. Another isoform of MDM2 is often observed as 57-60kD in cell lines which is indeed a caspase cleavage product of MDM2 at residue 361 (PMID: 19565011, 9840926, 7689721).

Notable Publications

Author	Pubmed ID	Journal	Application
Yanting Zhu	34552711	Pulm Circ	WB
Suping Li	34687132	J Cell Mol Med	IF
Jingwen Tan	36208777	Chem Biol Interact	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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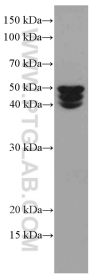
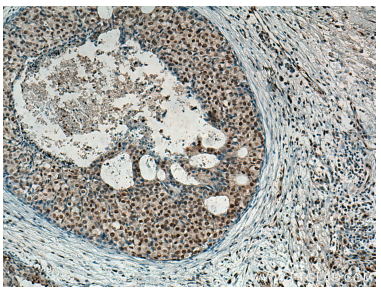
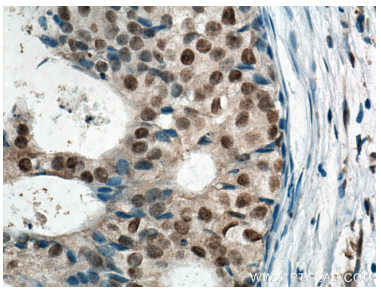
Selected Validation Data



MCF-7 cells were subjected to SDS PAGE followed by western blot with 66511-1-Ig (MDM2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66511-1-Ig (MDM2 antibody) at dilution of 1:300 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66511-1-Ig (MDM2 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).