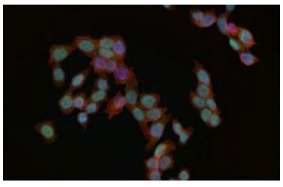
Phospho-MDM2 Antibody (pS166) [clone 29M35] (RQ8702)

Catalog No.	Formulation	Size
RQ8702	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

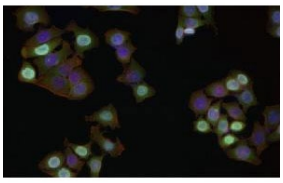
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	29M35
Purity	Affinity chromatography
UniProt	Q00987
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunofluorescence : 1:50 Immunohistochemistry (FFPE) : 1:50
Limitations	This Phospho-MDM2 antibody is available for research use only.



Immunofluorescent staining of FFPE human HeLa cells with Phospho-MDM2 antibody (green), phalloidin (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



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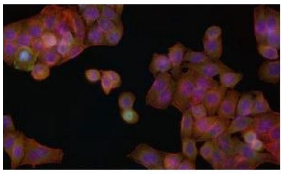

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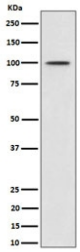
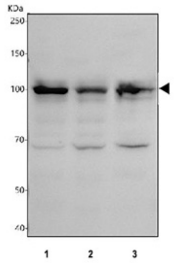
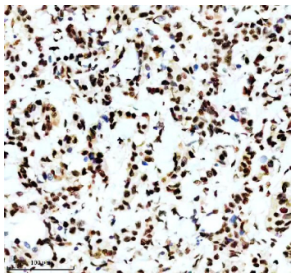


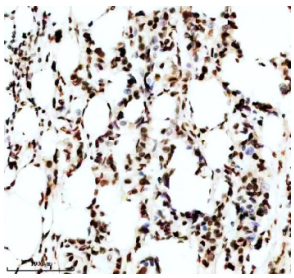
Western blot testing of lysate from human MCF7 cells treated with IGF-1 probed with Phospho-MDM2 antibody.



Western blot testing of human 1) MCF7, 2) HepG2 and 3) SH-SY5Y cell lysate with Phospho-MDM2 antibody.



IHC staining of FFPE human breast cancer tissue with Phospho-MDM2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



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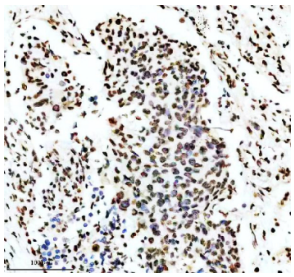
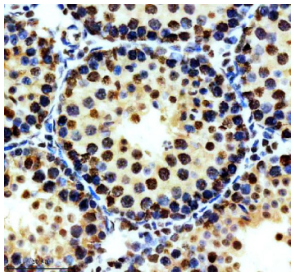
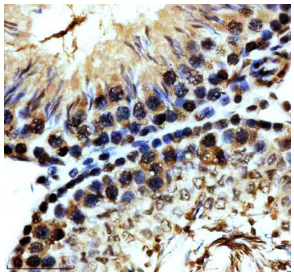


IHC staining of FFPE human lung cancer tissue with Phospho-MDM2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse testis tissue with Phospho-MDM2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat testis tissue with Phospho-MDM2 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.

Description

Phosphorylated MDM2 is a post-translationally modified form of the MDM2 protein, an E3 ubiquitin ligase that regulates the stability and activity of the tumor suppressor p53. Phosphorylation of MDM2 at specific residues modulates its localization, interaction with binding partners, and overall activity in the p53 pathway. Researchers often use a Phospho-MDM2 antibody to study these regulatory mechanisms.

Cellular stress signals such as DNA damage or growth factor stimulation can trigger phosphorylation of MDM2, altering its ability to degrade p53 and impacting cell cycle progression, DNA repair, and apoptosis. Employing a Phospho-MDM2 antibody enables detection of these phosphorylation-dependent changes and provides insights into signaling cascades that control cell fate.

NSJ Bioreagents offers a high-quality Phospho-MDM2 antibody for applications including western blot, immunoprecipitation, and immunofluorescence. Selecting the right Phospho-MDM2 antibody ensures reliable detection of this critical regulatory modification in cancer biology, cell cycle control, and stress response studies.

Application Notes

Optimal dilution of the Phospho-MDM2 antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to the region of human MDM2 protein surrounding phosphorylated serine 166 was used as the immunogen for the Phospho-MDM2 antibody.

Storage

Store the Phospho-MDM2 antibody at -20oC.