

## DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse/Rat
<b>Specificity</b>	Detects human, mouse, and rat MDM2.
<b>Source</b>	Polyclonal Rabbit IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human MDM2 aa 3-491
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the [Technical Information](#) section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

## DATA

Western Blot		LLnV	MDM2	Detection of Human MDM2 by Western Blot. Western blot shows lysates of U2OS human osteosarcoma cell line, MCF-7 human breast cancer cell line, and CEM human T-lymphoblastoid cell line untreated (-) or treated (+) with 5 µM LLnV for 1 hour. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat MDM2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1244), followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for MDM2 at approximately 95 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.	Immunohistochemistry																										
kDa	<table border="1"> <thead> <tr> <th>U2OS</th> <th>MCF-7</th> <th>CEM</th> </tr> <tr> <th>-</th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>203</td> <td></td> <td></td> <td></td> </tr> <tr> <td>120</td> <td></td> <td></td> <td></td> </tr> <tr> <td>90</td> <td></td> <td></td> <td></td> </tr> <tr> <td>52</td> <td></td> <td></td> <td></td> </tr> <tr> <td>34</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				U2OS	MCF-7	CEM	-	+	-	203				120				90				52				34				
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## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

MDM2 is a key regulator of p53 tumor suppressor protein activity and stability. MDM2 binds to and inhibits the transactivation domain of p53. In addition, MDM2 controls p53 stability by functioning as its E3 ligase in ubiquitination and by shuttling p53 from the nucleus to the cytoplasm for subsequent degradation. The importance of the p53/MDM2 relationship is underscored by the existence of an autoregulatory feedback loop whereby activated p53 transcriptionally up-regulates the expression of its own inhibitor, MDM2.