**Description**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>p53(Ab-9) Antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host Species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Purification</td>
<td>Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.</td>
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<tr>
<td>Applications</td>
<td>WB</td>
</tr>
<tr>
<td>Species Reactivity</td>
<td>Human</td>
</tr>
<tr>
<td>Specificity</td>
<td>The antibody detects endogenous level of total p53 protein.</td>
</tr>
<tr>
<td>Immunogen Type</td>
<td>Peptide-KLH</td>
</tr>
<tr>
<td>Immunogen Description</td>
<td>Peptide sequence around aa.7~11 (D-P-S-V-E) derived from Human p53.</td>
</tr>
<tr>
<td>Target Name</td>
<td>p53</td>
</tr>
<tr>
<td>Other Names</td>
<td>Tumor suppressor p53; Phosphoprotein p53; Antigen NY-CO-13; TP53;</td>
</tr>
<tr>
<td>Accession No.</td>
<td>Swiss-Prot: P04637NCBI Protein: NP_000537.3</td>
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<tr>
<td>Concentration</td>
<td>1.0mg/ml</td>
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<tr>
<td>Formulation</td>
<td>Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.</td>
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<tr>
<td>Storage</td>
<td>Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.</td>
</tr>
</tbody>
</table>

**Application Details**

- Predicted MW: 53kd
- Western blotting: 1:500~1:1000

**Images**

Western blot analysis of extracts from 293, HT29 and MDA cells using p53(Ab-9) Antibody #21084.

**Background**

p53 is a nuclear protein which plays an essential role in the regulation of cell cycle specifically in the transition from G0 to G1. It is found in very low
levels in normal cells however in a variety of transformed cell lines in high amounts and believed to contribute to transformation and malignancy. The open reading frame of p53 is 393 amino acids long, with the central region (consisting of amino acids from about 100 to 300) containing the DNA-binding domain. This proteolysis-resistant core is flanked by a C-terminal end mediating oligomerization and an N-terminal end containing a strong transcription activation signal. p53 binds as a tetramer to a PBS (p53-Binding Site) and activates the expression of downstream genes that inhibit growth and/or invasion. p53 binds as a tetramer to a p53-binding site (PBS) and to activate the expression of adjacent genes that inhibit growth and/or invasion. Deletion of one or both p53 alleles reduces the expression of tetramers, resulting in decreased expression of the growth inhibitory genes.


Note: This product is for in vitro research use only and is not intended for use in humans or animals.