Datasheet for ABIN677408

**anti-p53 antibody (AA 301-393)**

### Overview

<table>
<thead>
<tr>
<th>Quantity:</th>
<th>100 μL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target:</td>
<td>p53 (TP53)</td>
</tr>
<tr>
<td>Binding Specificity:</td>
<td>AA 301-393</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>Human, Mouse, Rat, Goat</td>
</tr>
<tr>
<td>Host:</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Clonality:</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Conjugate:</td>
<td>This p53 antibody is un-conjugated</td>
</tr>
<tr>
<td>Application:</td>
<td>Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))</td>
</tr>
</tbody>
</table>

### Product Details

<table>
<thead>
<tr>
<th>Immunogen:</th>
<th>KLH conjugated synthetic peptide derived from human P53</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isotype:</td>
<td>IgG</td>
</tr>
<tr>
<td>Predicted Reactivity:</td>
<td>Dog, Sheep, Pig, Horse, Rabbit</td>
</tr>
<tr>
<td>Purification:</td>
<td>Purified by Protein A</td>
</tr>
</tbody>
</table>

### Target Details

<table>
<thead>
<tr>
<th>Target:</th>
<th>p53 (TP53)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternative Name:</td>
<td>p53 (TP53 Products)</td>
</tr>
</tbody>
</table>
Target Details

Background: Acts as a tumor suppressor in many tumor types, induces growth arrest or apoptosis depending on the physiological circumstances and cell type. Involved in cell cycle regulation as a trans-activator that acts to negatively regulate cell division by controlling a set of genes required for this process. One of the activated genes is an inhibitor of cyclin-dependent kinases. Apoptosis induction seems to be mediated either by stimulation of BAX and FAS antigen expression, or by repression of Bcl-2 expression. In cooperation with mitochondrial PPIF is involved in activating oxidative stress-induced necrosis, the function is largely independent of transcription. Induces the transcription of long intergenic non-coding RNA p21 (lincRNA-p21) and lincRNA-Mkln1. LincRNA-p21 participates in TP53-dependent transcriptional repression leading to apoptosis and seem to have to effect on cell-cycle regulation. Implicated in Notch signaling cross-over. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. Isoform 2 enhances the transactivation activity of isoform 1 from some but not all TP53-inducible promoters. Isoform 4 suppresses transactivation activity and impairs growth suppression mediated by isoform 1. Isoform 7 inhibits isoform 1-mediated apoptosis.

Subcellular location: Cytoplasm, Nucleus


Gene ID: 7157

UniProt: P04637

Pathways: p53 Signaling, MAPK Signaling, PI3K-Akt Signaling, Apoptosis, AMPK Signaling, Chromatin Binding, ER-Nucleus Signaling, Positive Regulation of Endopeptidase Activity, Hepatitis C, Protein targeting to Nucleus, Autophagy, Warburg Effect

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200
ICC 1:100-500
Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 μg/μL

Buffer: 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications


Images

**Immunohistochemistry**

**Image 1.** Formalin-fixed and paraffin embedded rat brain labeled with Anti-P53(wt-p53) Polyclonal Antibody, Unconjugated (ABIN677408) at 1:200 followed by conjugation to the secondary antibody and DAB staining.
**Immunohistochemistry**

**Image 2.** Formalin-fixed and paraffin embedded human lung carcinoma labeled with Anti-P53(wt-p53) Polyclonal Antibody, Unconjugated (ABIN677408) at 1:200 followed by conjugation to the secondary antibody and DAB staining.

**Image 3.** MCF7 cells were fixed with 70% ice-cold methanol overnight at 4°C, permeabilized with 90% ice-cold methanol for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with P53(wt-p53) Polyclonal Antibody at 1:50 dilution in blocking buffer and incubated for 30 min at -20°C, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN677408.