

## Product datasheet for **TA385447S**

### Trp53 Rabbit Monoclonal Antibody [Clone ID: R01-2B9]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	R01-2B9
Applications:	IF, IP, WB
Recommended Dilution:	WB: 1/1000 ICC/IF: 1/20 IP: 1/20
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Recombinant protein of mouse p53
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 44 kDa; Observed MW: 53 kDa
Gene Name:	transformation related protein 53
Database Link:	<a href="#">Entrez Gene 22059 Mouse P02340</a>



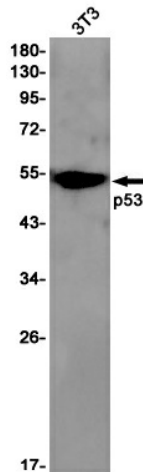
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**Background:**

Swiss-Prot Acc.P02340. 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. Prevents CDK7 kinase activity when associated to CAK complex in response to DNA damage, thus stopping cell cycle progression. 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, but seems to have no effect on cell-cycle regulation. Regulates the circadian clock by repressing CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER2 (PubMed:24051492).

**Synonyms:**

bbl; bfy; bhy; p44; p53; Tp53

**Product images:**

Western blot analysis of p53 in 3T3 lysates using p53 antibody.