

Anti-p53 Antibody (4F836)

Product Details

Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4F836
Purification:	Protein G purified

Applications

Verified Activity:	1. Immunohistochemical of paraffin-embedded Human lung cancer tissue using TMAH-01199 at dilution of 1:200.
	2. Immunohistochemical of paraffin-embedded Human rectum cancer tissue using TMAH-01199 at dilution of 1:200.
	3. Immunohistochemical of paraffin-embedded Human breast cancer tissue using TMAH-01199 at dilution of 1:200.
	4. Western Blot
	-All lanes: Mouse anti human tumor protein p53 Monoclonal antibody at 1µg/ml
	-Lane 1: Whole HEK-293 cells Lysates
	-Secondary Goat polyclonal to Mouse IgG at 1/5000 dilution
	-Predicted band size: 43,38,39,40,34,35,30,24,25KD
	-Observed band size: 53KD
Application:	ELISA, WB, IHC

Properties

Purity:	>95%
Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human TP53 Protein
Antigen Species:	Human
Gene ID:	7157
Uniprot ID:	P04637
Biology Area:	Cell Biology

Research 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. Its pro-apoptotic activity is activated via its interaction with

A DRUG SCREENING EXPERT

PPP1R13B/ASPP1 or TP53BP2/ASPP2. However, this activity is inhibited when the interaction with PPP1R13B/ASPP1 or TP53BP2/ASPP2 is displaced by PPP1R13L/iASPP. 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 seems to have an 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. Regulates the circadian clock by repressing CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER2.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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