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Anti-TP53INP1 Antibody

Catalog # AP51581

Product Information

Application	WB, IHC
Primary Accession	Q96A56
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	27366

Additional Information

Gene ID	94241
Other Names	P53DINP1; SIP; Tumor protein p53-inducible nuclear protein 1; Stress-induced protein; p53-dependent damage-inducible nuclear protein 1; p53DINP1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human TP53INP1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

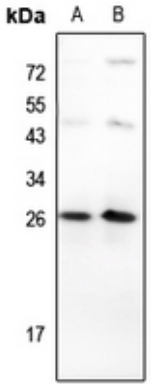
Name	TP53INP1
Synonyms	P53DINP1, SIP
Function	Antiproliferative and proapoptotic protein involved in cell stress response which acts as a dual regulator of transcription and autophagy. Acts as a positive regulator of autophagy. In response to cellular stress or activation of autophagy, relocates to autophagosomes where it interacts with autophagosome-associated proteins GABARAP, GABARAPL1/L2, MAP1LC3A/B/C and regulates autophagy. Acts as an antioxidant and plays a major role in p53/TP53-driven oxidative stress response. Possesses both a p53/TP53-independent intracellular reactive oxygen species (ROS) regulatory function and a p53/TP53-dependent transcription regulatory function. Positively regulates p53/TP53 and p73/TP73 and stimulates their capacity to induce apoptosis and regulate cell cycle. In response to double-strand DNA breaks, promotes p53/TP53 phosphorylation on 'Ser-46' and subsequent apoptosis. Acts as a tumor suppressor by inducing cell death by an autophagy

	and caspase-dependent mechanism. Can reduce cell migration by regulating the expression of SPARC.
Cellular Location	Cytoplasm, cytosol. Nucleus. Nucleus, PML body. Cytoplasmic vesicle, autophagosome. Note=Shuttles between the nucleus and the cytoplasm, depending on cellular stress conditions, and re- localizes to autophagosomes on autophagy activation
Tissue Location	Ubiquitously expressed.

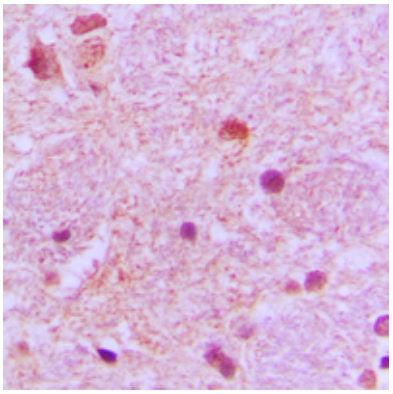
References

Okamura S.,et al.Mol. Cell 8:85-94(2001).
Tomasini R.,et al.Eur. J. Cell Biol. 81:294-301(2002).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Tomasini R.,et al.J. Biol. Chem. 278:37722-37729(2003).

Images



Western blot analysis of TP53INP1 expression in Hela (A), HepG2 (B) whole cell lysates. (Predicted band size: 27 kD; Observed band size: 27 kD)



Immunohistochemical analysis of TP53INP1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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