

TP53INP1 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11742a**Specification**

TP53INP1 Antibody (N-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O96A56
Other Accession	NP_001129205.1 , NP_150601.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	27366
Antigen Region	36-64

TP53INP1 Antibody (N-term) - Additional Information**Gene ID** 94241**Other Names**

Tumor protein p53-inducible nuclear protein 1, Stress-induced protein, p53-dependent damage-inducible nuclear protein 1, p53DINP1, TP53INP1, P53DINP1, SIP

Target/Specificity

This TP53INP1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 36-64 amino acids from the N-terminal region of human TP53INP1.

Dilution

WB~~1:1000

IHC-P~~1:10~50

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TP53INP1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TP53INP1 Antibody (N-term) - 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

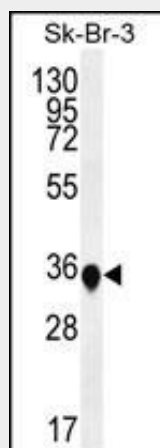
Tissue Location

Ubiquitously expressed.

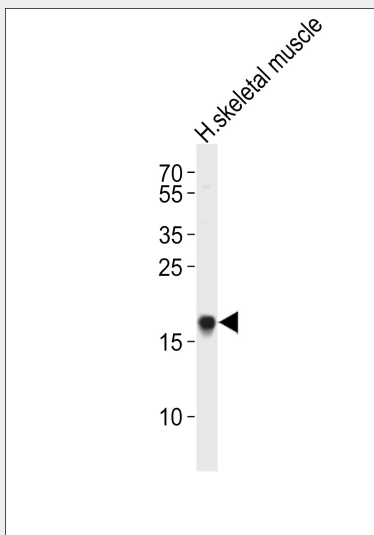
TP53INP1 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

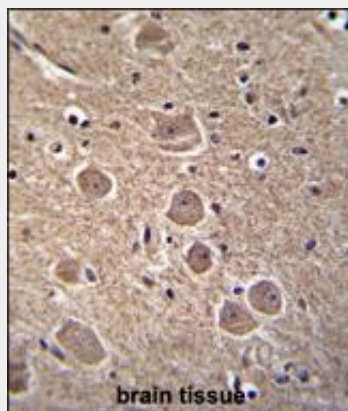
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TP53INP1 Antibody (N-term) - Images

TP53INP1 Antibody (N-term) (Cat. #AP11742a) western blot analysis in SK-BR-3 cell line lysates (35ug/lane). This demonstrates the TP53INP1 antibody detected the TP53INP1 protein (arrow).



Western blot analysis of lysate from human skeletal muscle tissue lysate, using TP53INP1 Antibody (N-term)(Cat. #AP11742a). AP11742a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



TP53INP1 Antibody (N-term) (Cat. #AP11742a)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TP53INP1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

TP53INP1 Antibody (N-term) - Background

In response to double-strand DNA breaks, promotes p53/TP53 phosphorylation on 'Ser-46' and subsequent apoptosis.

TP53INP1 Antibody (N-term) - References

- Voight, B.F., et al. Nat. Genet. 42(7):579-589(2010)
- Yeung, M.L., et al. Cancer Res. 68(21):8976-8985(2008)
- Daniele, B. J. Clin. Gastroenterol. 42(4):336-337(2008)
- Sawaya, M., et al. J. Clin. Gastroenterol. 42(4):351-355(2008)
- Bernardo, M.V., et al. Biochem. Biophys. Res. Commun. 359(2):317-322(2007)