10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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	Q96A56
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

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

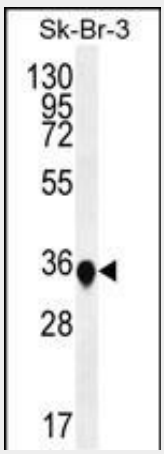
Tissue Location
Ubiquitously expressed.

TP53INP1 Antibody (N-term) - Protocols

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

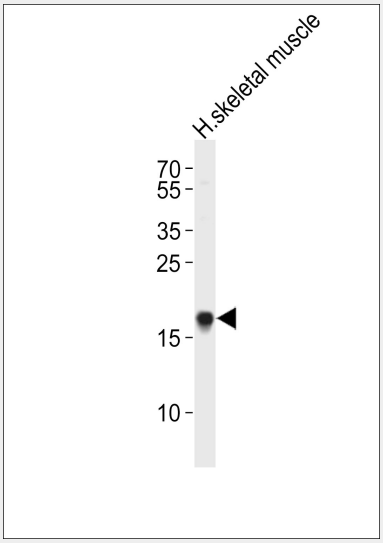
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TP53INP1 Antibody (N-term) - Images

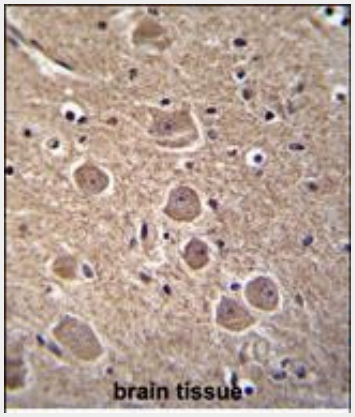


TP53INP1 Antibody (N-term) (Cat. #AP11742a) western blot analysis in SK-BR-3 cell line lysates (35ug/lane).This demonstrates the TP53INP1 antibody detected the TP53INP1 protein (arrow).

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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)