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TP53INP1 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP11890b

Specification

TP53INP1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q96A56

TP53INP1 Antibody (C-term) Blocking peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TP53INP1 Antibody (C-term) Blocking peptide - 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 (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

TP53INP1 Antibody (C-term) Blocking peptide - Images

TP53INP1 Antibody (C-term) Blocking peptide - Background

TP53INP1 is in response to double-strand DNA breaks, promotes p53/TP53 phosphorylation on 'Ser-46' and subsequent apoptosis.

TP53INP1 Antibody (C-term) Blocking peptide - 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)