

p53AIP Antibody

p53AIP: p53-regulated apoptosis-inducing protein 1, p53AIP1

CATALOG No.:2449

BACKGROUND:

The p53 tumor-suppressor protein can induce apoptosis through transcriptional activation of several genes (1). One such protein p53AIP was initially identified through direct cloning of p53 binding sequences from human genomic DNA (2). Its expression is inducible by p53 following p53 phosphorylation on Ser-46, and ectopic expression of p53AIP leads to apoptotic cell death. Both the phosphorylation of p53 and the induction of p53AIP were blocked by inhibiting the expression of p53DINP1 by the introduction of antisense oligonucleotides to p53DINP1, suggesting that the apoptosis associated with p53AIP expression is regulated by p53DINP1 (3). Finally, as adenovirus-mediated introduction of p53AIP has been shown to suppress tumor growth in vivo, it has been suggested that p53AIP gene transfer may become a useful strategy for the treatment of p53-resistant cancers (4). Three isoforms of p53AIP are known to exist; this antibody will detect all three.

SOURCE:

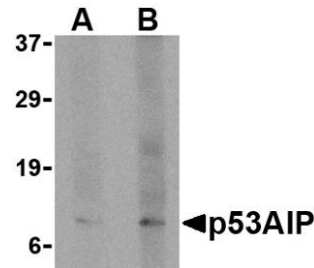
Rabbit polyclonal p53AIP antibody was raised against a 15 amino acid peptide from near the amino terminus of human p53AIP (GenBank accession no. BAB16421).

APPLICATION:

p53AIP antibody can be used for detection of p53AIP by Western blot at 4 – 8 µg/ml. (Optimal dilution should be determined by user.) HL60 cell lysate can be used as positive control. p53AIP antibody is human and mouse reactive. **For research use only.**

STORAGE:

p53AIP antibody is supplied as immunoaffinity purified IgG in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of p53AIP in HL60 cell lysate with p53AIP antibody at (A) 4 and (B) 8 µg/ml.

RELATED PRODUCTS:

Blocking Peptide, Catalog No. **2449P**.

HL60 Cell Lysate, Catalog No. **1209**.

p53DINP1 Antibody, Catalog No. **3045**.

Immunocytochemistry of p53AIP in HL60 cells with p53AIP antibody at 10 µg/ml.



REFERENCES:

1. Kern SE, Pietenpol JA, Thiagalingam S, Seymour A, et al. Oncogenic forms of p53 inhibit p53-regulated gene expression. *Science* 1991; 252:1708-11.
2. Oda K, Arakawa H, Tanaka T, et al. p53AIP1, a potential mediator of p53-dependent apoptosis, and its regulation by Ser-46-phosphorylated p53. *Cell* 2000; 102:849-52.
3. Okamura S, Arakawa H, Tanaka T, et al. p53DINP1, a p53-inducible gene, regulates p53-dependent apoptosis. *Mol. Cell* 2001; 8:85-94.
4. Yoshida K, Monden M, Nakamura Y, et al. Adenovirus-mediated p53AIP1 gene transfer as a new strategy for treatment of p53-resistant tumors. *Cancer Sci.* 2004; 95:91-7. (07-01D)