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BAP3 Antibody

BAP3 (NT2): BAI1-associated protein 3, BAIAP3

CATALOG NO.: 4505

BACKGROUND:

BAP 3 was initially identified through interaction in a yeast two-hybrid system with the brain-specific angiogenesis inhibitor 1, a p53-target gene that encodes a seven-span transmembrane protein member of the secretin receptor family (1). BAP3 is predominantly expressed in the brain and possess high homology with Munc13 and synaptotagmin, suggesting that BAP3 may play a role in regulating neurotransmitter release. Recent experiments have shown that BAP3 is induced in certain tumors such as desmoplastic small round cell tumor. Ectopic expression of BAP3 in tumor cells dramatically enhances growth in low serum conditions and colony formation in soft agar, suggesting that the regulated exocytotic pathway may play a role in cancer cell proliferation (2). BAP3 is known to have two isoforms; this BAP3 antibody will recognize only isoform 2. Lower molecular weight bands may represent cleavage or degradation products.

SOURCE:

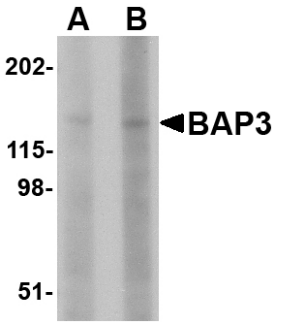
Rabbit polyclonal BAP3 antibody was raised against a 13 amino acid peptide from near the amino terminus of human BAP3 (Genbank accession No. EAW85671).

APPLICATION:

BAP3 antibody can be used for the detection of BAP3 by Western blot at 2 µg/ml. (Optimal dilution should be determined by user). SK-N-SH cell lysate can be used as positive control. BAP3 antibody is human specific. **This product is for research use only.**

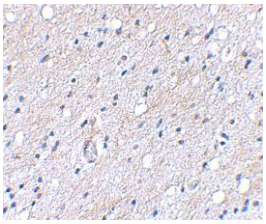
STORAGE:

BAP3 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 BAP3 in SK-N-SH cell lysate with BAP3 antibody at (A) 1 and (B) 2 µg/ml.

Immunohistochemical staining of human brain tissue using BAP3 antibody at 5 µg/ml.



RELATED PRODUCTS:

Blocking peptide, Catalog No. **4505P.**

SK-N-SH Cell Lysate, Catalog No. **1220.**

BAP3 Antibody (NT), Catalog No. **4503.**

REFERENCES:

1. Shiratsuchi T, Oda K, Nishimori H, et al. Cloning and characterization of BAP (BAI-associated protein 3), a C2 domain-containing protein that interacts with BAI1. *Biochem. Biophys. Res. Comm.* 1998; 251:158-65.
2. Palmer RE, Lee SB, Wong JC, et al. Induction of BAIAP3 by the EWS-WT1 chimeric fusion implicates regulated exocytosis in tumorigenesis. *Cancer Cell* 2002; 2:497-505.

(08-01D)