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Anti-NAP1 Antibody

Catalog # AP51007

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9H6S1
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44935

Additional Information

Gene ID	64343
Other Names	NAP1; TBKBP2; 5-azacytidine-induced protein 2; NF-kappa-B-activating kinase-associated protein 1; Nak-associated protein 1; TILP
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human NAP1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

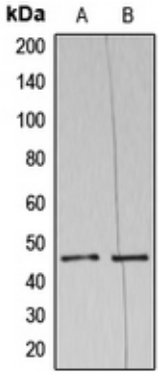
Protein Information

Name	AZI2
Synonyms	NAP1 {ECO:0000303|PubMed:14560022}, TBKB
Function	Adapter protein which binds TBK1 and IKBKE playing a role in antiviral innate immunity (PubMed:14560022, PubMed:21931631). Activates serine/threonine-protein kinase TBK1 and facilitates its oligomerization (PubMed:14560022, PubMed:21931631). Enhances the phosphorylation of NF-kappa-B p65 subunit RELA by TBK1 (PubMed:14560022, PubMed:21931631). Promotes TBK1-induced as well as TNF or PMA-induced activation of NF-kappa-B (PubMed:14560022, PubMed:21931631). Participates in IFNB promoter activation via TICAM1 (PubMed:15611223).
Cellular Location	Cytoplasm.
Tissue Location	Widely expressed (PubMed:14560022). Abundant expression seen in the pancreas and testis (PubMed:14560022)

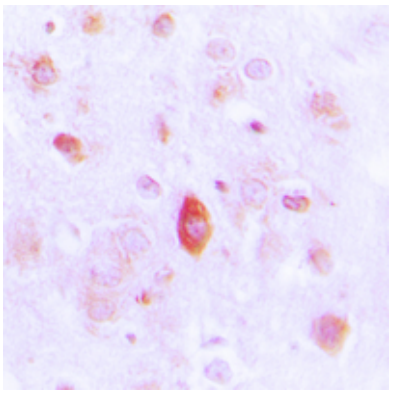
References

Fujita F.,et al.Mol. Cell. Biol. 23:7780-7793(2003).
Inohara N.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Muzny D.M.,et al.Nature 440:1194-1198(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.

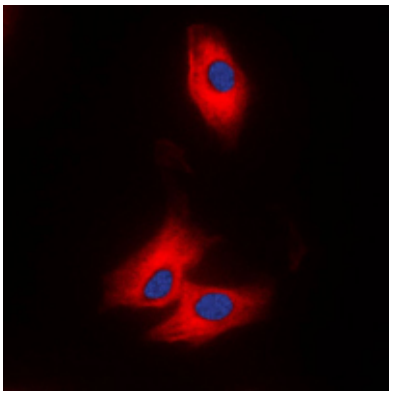
Images



Western blot analysis of NAP1 expression in HeLa (A), THP1 (B) whole cell lysates. (Predicted band size: 44 kD; Observed band size: 45 kD)



Immunohistochemical analysis of NAP1 staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of NAP1 staining in THP1 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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