

Product datasheet for **AP20366PU-S**

NIPA (ZC3HC1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 318-372 of Human NIPA.
Specificity:	This antibody detects endogenous levels of NIPA protein.
Formulation:	PBS with 0.02% sodium azide, 50% glycerol, pH7.2 State: Aff - Purified State: Liquid purified Ig fraction (>95% pure by SDS-PAGE)
Concentration:	1.0 mg/ml
Purification:	Affinity-Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 55 kDa
Gene Name:	zinc finger C3HC-type containing 1
Database Link:	Entrez Gene 232679 Mouse Entrez Gene 296957 Rat Entrez Gene 51530 Human Q86WB0



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Background:

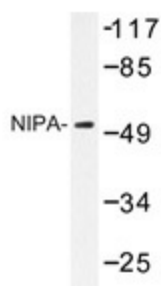
Entry into mitosis is essentially driven by cyclin B1, which is located in the cytoplasm throughout interphase, but accumulates in the nucleus just before mitosis occurs. Nuclear interaction partner of ALK (NIPA) plays a critical role in cyclin B1 regulation. NIPA is normally phosphorylated during G2 and M phases, resulting in an accumulation of cyclin B1. When NIPA sheds its attached phosphate, it binds to SCF to form the SCFNIPA complex, a member of the E3 ubiquitin ligases, which ubiquitinates cyclin B1, thereby targeting it to the proteasome for degradation. Therefore, the accumulation of cyclin B1 is due to the inability of phosphorylated NIPA to bind to the molecule SCF, thereby preventing the degradation of cyclin B1. An absence of NIPA causes cyclin B1 to accumulate abnormally, leading to premature mitotic entry, loss of checkpoint control and genomic instability, which are all associated with cancer. The phosphorylated form of NIPA may also be involved in apoptotic signaling pathways.

Synonyms:

NIPA, HSPC216

Protein Families:

Druggable Genome

Product images:


Western blot analysis of NIPA antibody (Cat.-No.: [AP20366PU-N]) in extracts from COS7 cells.