

## NIPA (phospho Ser354) Polyclonal Antibody

<b>Catalog No :</b>	YP0385
<b>Reactivity :</b>	Human;Mouse;Rat;Monkey
<b>Applications :</b>	WB;IF;ELISA
<b>Target :</b>	NIPA
<b>Gene Name :</b>	ZC3HC1
<b>Protein Name :</b>	Nuclear-interacting partner of ALK
<b>Human Gene Id :</b>	51530
<b>Human Swiss Prot No :</b>	Q86WB0
<b>Mouse Gene Id :</b>	232679
<b>Mouse Swiss Prot No :</b>	Q80YV2
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human NIPA around the phosphorylation site of Ser354. AA range:320-369
<b>Specificity :</b>	Phospho-NIPA (S354) Polyclonal Antibody detects endogenous levels of NIPA protein only when phosphorylated at S354.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:40000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year (Do not lower than -25°C)

**Observed Band :** 55kD

**Background :** This gene encodes an F-box-containing protein that is a component of an SCF-type E3 ubiquitin ligase complex that regulates the onset of cell division. The G2/M transition in the cell cycle requires the interaction of the proteins cyclin B1 and cyclin-dependent kinase 1. The activated ubiquitin ligase complex targets the protein cyclin B1 for degradation, preventing this transition to mitosis. [provided by RefSeq, Aug 2013],

**Function :** caution:Reported to contain a F-box domain (PubMed:16009132). Such domain is however not predicted by any detection method.,developmental stage:Weakly expressed in G0/G1 phases, abundant during S and G2/M phases, and strongly decreases thereafter.,domain:The F-box-like region is required for the interaction with SKP1A.,function:Essential component of an SCF-type E3 ligase complex, SCF(NIPA), a complex that controls mitotic entry by mediating ubiquitination and subsequent degradation of cyclin B1 (CCNB1). Its cell-cycle-dependent phosphorylation regulates the assembly of the SCF(NIPA) complex, restricting CCNB1 ubiquitination activity to interphase. Its inactivation results in nuclear accumulation of CCNB1 in interphase and premature mitotic entry. May have an antiapoptotic role in NPM-ALK-mediated signaling events.,pathway:Protein modification; protein ubiquitination.,PTM:Phosphorylated.

**Subcellular Location :** Nucleus .

**Expression :** Widely expressed. Highly expressed in heart, skeletal muscle and testis. Expressed in brain, placenta, lung, kidney, liver, pancreas, spleen, thymus, prostate, ovary small intestine and colon. Weakly or not expressed in leukocytes.

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