NIPA (Phospho Ser354) Rabbit pAb

CatalogNo: YP0385 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,Monkey

Applications
- WB,IF,ELISA

MW
- 55kD (Observed)

Isotype
- IgG

Storage

Storage*	-15°C to -25°C/1 year (Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000
IF 1:200-1:1000
ELISA 1:40000
Not yet tested in other applications.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	The antiserum was produced against synthesized peptide derived from human NIPA around the phosphorylation site of Ser354. AA range:320-369

Specificity	Phospho-NIPA (S354) Polyclonal Antibody detects endogenous levels of NIPA protein only when phosphorylated at S354.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):TRsWD

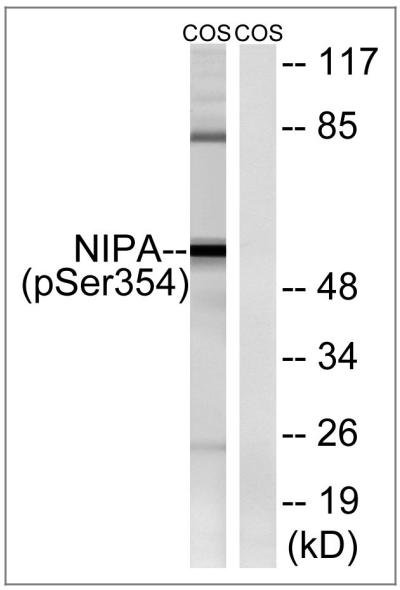
Target Information

Gene name	ZC3HC1
Protein Name	Nuclear-interacting partner of ALK

Organism	Gene ID	UniProt ID
Human	51530;	Q86WB0;
Mouse	232679;	Q80YV2;

Cellular Localization	Nucleus .
Tissue specificity	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.
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. Phosphorylated on Ser residues at G2/M phase , but not during S and G0 phases. May also be weakly phosphorylated on Tyr residues. Ser-354 phosphorylation , a major site during the course of cell-cycle-dedendent phosphorylation , results in its dissociation from the SCF (NIPA) complex , thereby preventing CCNB1 degradation leading to mitotic entry. ,similarity:Contains 1 C3HC-type zinc finger. ,subunit:Interacts with the NPM-ALK fusion protein in a tyrosine phosphorylation-dependent manner. Interacts with SKP1. Component of a SCF (NIPA) E3 complex with SKP1A , RBX1 and CUL1 when not phosphorylated on Ser-354. Interacts with CCNB1. ,tissue specificity: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. ,

Validation Data



Western blot analysis of lysates from COS7 cells treated with HU 2nM 24h, using NIPA (Phospho-Ser354) Antibody. The lane on the right is blocked with the phospho peptide.

Contact information

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Please scan the QR code to access additional product information:
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