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# NIPA Antibody

Store at -20C  
#4497

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60-65	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q86WB0	<b>Entrez-Gene Id:</b> 51530
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## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

NIPA Antibody detects endogenous levels of total NIPA protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with synthetic peptide corresponding to the amino acid sequence surrounding Ala130 of human NIPA. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

NIPA (nuclear interaction partner of ALK) is an F-box-containing protein that is an essential component of the SCF-type E3 ligase (SCF<sup>NIPA</sup>) complex, a complex that controls the completion of S-phase and mitotic entry (1). This control is mediated by the ubiquitination and subsequent degradation of cell cycle regulatory proteins, whose oscillation of protein levels is required for proper cell cycle progression (2).

Expression levels of NIPA are low in G0/G1 phases and upregulated in S and G2/M phases. The SCF<sup>NIPA</sup> complex targets nuclear cyclin B1 for ubiquitination in interphase, whereas phosphorylation of NIPA in late G2 phase and mitosis inactivates the complex to allow for accumulation of cyclin B1 (3). NIPA may have an anti-apoptotic role in NPM-ALK-mediated signaling events (4).

## Background References

1. Bassermann, F. et al. (2005) *Cell* 122, 45-57.
2. Bassermann, F. et al. (2005) *Cell Cycle* 4, 1515-7.
3. Bassermann, F. et al. (2007) *J Biol Chem* 282, 15965-72.
4. Ouyang, T. et al. (2003) *J Biol Chem* 278, 30028-36.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human **Mk:** Monkey

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