

HIPK1/2/3 (Phospho Tyr352/361/359) Rabbit pAb

CatalogNo: YP1745

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 133kD (Calculated)

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 1:500-2000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human HIPK1/2/3 (Phospho-Tyr352/361/359)

Specificity This antibody detects endogenous levels of HIPK1/2/3 only when phosphorylated at Human:Y352/361/359, Mouse:Y352/361/359, Rat:Y352/359. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):STyLQ

Target Information

Gene name HIPK1 KIAA0630 MYAK NBAK2
Protein Name HIPK1/2/3 (Phospho-Tyr352/361/359)

| Organism | Gene ID | UniProt ID |
|----------|--------------------------|--------------------------|
| Human | 204851 ; | Q86Z02 ; |
| Mouse | 15257 ; | O88904 ; |
| Rat | | A4L9P5 ; |

Cellular Localization Nucleus . Cytoplasm . Nucleus speckle . Predominantly nuclear. Translocates from nucleus to cytoplasm in response to stress stimuli via SENP1-mediated desumoylation. .

Tissue specificity Ubiquitously expressed with highest levels in skeletal muscle and heart. Overexpressed in breast cancer cell lines. Isoform 2 is highly expressed in testis. Expressed in both androgen-dependent and androgen-independent prostate cancer cells (PubMed:28289210).

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,Function:May play a role as a corepressor for homeodomain transcription factors. Phosphorylates DAXX in response to stress, and mediates its translocation from the nucleus to the cytoplasm. May be involved in malignant squamous cell tumor formation.,PTM:Autophosphorylated. Phosphorylated and activated by JNK1.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. HIPK subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location:Predominantly nuclear.,subunit:Interacts with Nkx1-2 and Nkx2-5 (By similarity). Interacts with DAXX and TP53.,tissue specificity:Ubiquitously expressed with highest levels in skeletal muscle and heart. Overexpressed in breast cancer cell lines.,

Validation Data

Contact information

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Rabbit pAb