

Krs-1/2 (Phospho Thr183) Rabbit pAb

CatalogNo: YP0695 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 60kD (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

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Mst1/2 around the phosphorylation site of Thr183. AA range:149-198

Specificity

Phospho-Krs-1/2 (T183) Polyclonal Antibody detects endogenous levels of Krs-1/2 protein only when phosphorylated at T183. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):RNTVI

Target Information

Gene name STK3/STK4

Protein Name Serine/threonine-protein kinase 3/4

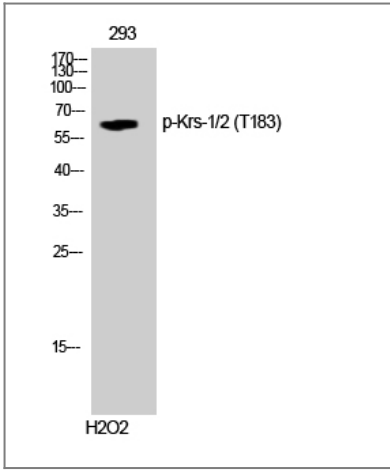
Organism	Gene ID	UniProt ID
Human	6789 ;	Q13188 ; Q13043 ;
Mouse	56274 ; 58231 ;	
Rat	65189 ;	O54748 ;

Cellular Localization Cytoplasm . Nucleus . The caspase-cleaved form cycles between nucleus and cytoplasm (PubMed:19525978 , PubMed:11278283) . Phosphorylation at Thr-117 leads to inhibition of nuclear translocation (PubMed:19525978) . .

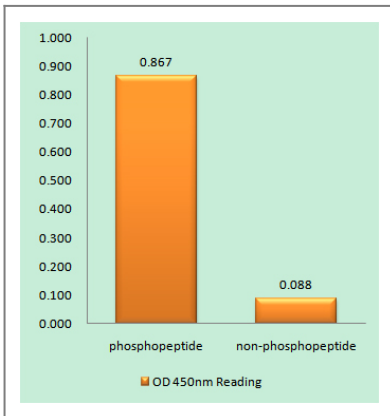
Tissue specificity Expressed at high levels in adult kidney , skeletal and placenta tissues and at very low levels in adult heart , lung and brain tissues.

Function Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,cofactor:Magnesium. ,enzyme regulation:Inhibited by the C-terminal non-catalytic region. Activated by caspase-cleavage. Full activation also requires homodimerization and autophosphorylation of Thr-180 , which are inhibited by the proto-oncogene product RAF1. ,Function:Stress-activated , pro-apoptotic kinase which , following caspase-cleavage , enters the nucleus and induces chromatin condensation followed by internucleosomal DNA fragmentation. Phosphorylates NKX2-1 (By similarity) . Phosphorylates and activates LATS1 and LATS2. ,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 1 SARAH domain. ,subcellular location:The caspase-cleaved form cycles between nucleus and cytoplasm. ,subunit:Homodimer; mediated via the coiled-coil region. Interacts with NORE1 , which inhibits autoactivation (By similarity) . Interacts with and stabilizes SAV1. Interacts with RAF1 , which prevents dimerization and phosphorylation. Interacts with RASSF1 , which leads to enzyme activation. ,tissue specificity:Expressed at high levels in adult kidney , skeletal and placenta tissues and at very low levels in adult heart , lung and brain tissues. ,

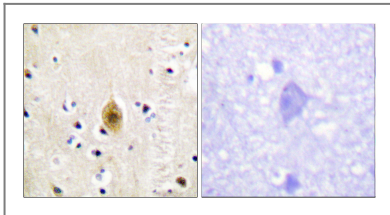
Validation Data



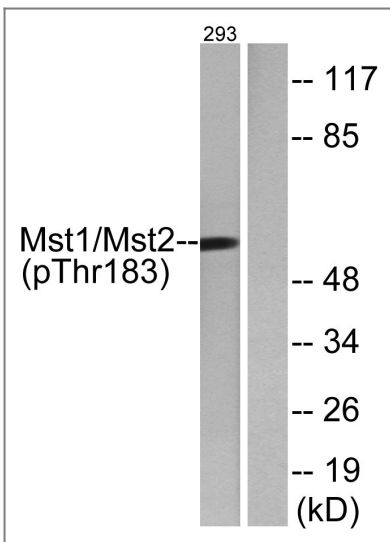
Western Blot analysis of 293 cells using Phospho-Krs-1/2 (T183) Polyclonal Antibody



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Mst1/2 (Phospho-Thr183) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using Mst1/2 (Phospho-Thr183) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells treated with H2O2 100uM 15', using Mst1/2 (Phospho-Thr183) 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:
**Krs-1/2 (Phospho
Thr183) Rabbit pAb**

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

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