

## Krs-1/2 (Phospho Thr183) Rabbit pAb

CatalogNo: AB0187

### •Main information

<b>Target</b>	Krs-1/2 Phospho Thr183
<b>Reactivity</b>	Human,Mouse
<b>Applications</b>	WB,IHC,IF,ELISA
<b>MW (kDa)</b>	60kD (Calculated) 60kD (Observed)
<b>Host Species</b>	Rabbit
<b>Isotype</b>	IgG
<b>Modified</b>	Phospho

### •Recommended Dilutions

WB 1:500-1:2000
IHC 1:100-1:300
ELISA 1:40000
IF 1:50-200 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0 (Cat#RH0011)

### •Detailed information

**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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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

**Storage** -15°C to -25°C/1 year(Do not lower than -25°C, Ship by ice bag)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

**Purification** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Clonality** Polyclonal

## •Target Information

**Gene name** STK3/STK4

**Protein Name** Serine/threonine-protein kinase 3/4

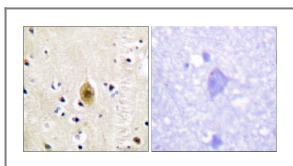
Organism	Gene ID	UniProt ID
Human	<a href="#">6789</a> ;	<a href="#">Q13188</a> ; <a href="#">Q13043</a> ;
Mouse	<a href="#">56274</a> ; <a href="#">58231</a> ;	;
Rat	<a href="#">65189</a> ;	<a href="#">O54748</a> ;

**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). .

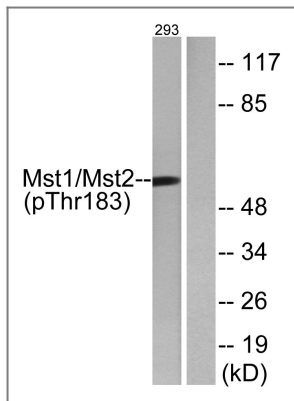
**Tissue specificity** Expressed at high levels in adult kidney, skeletal and placenta tissues and at very low levels in adult heart, lung and brain tissues.

**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



Immunohistochemical 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 H<sub>2</sub>O<sub>2</sub> 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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**Krs-1/2 (Phospho Thr183) Rabbit pAb**

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