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[Primary Antibody]

Rabbit Anti-SLK antibody

Catalog Number: SL11484R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SLK
Immunogen:	KLH conjugated synthetic peptide derived from human SLK: 885-931/1235
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Horse, Rabbit, Sheep)
Predicted MW.:	143kDa
Subcellular Location:	cytoplasmic
Background:	SLK is a member of the serine/threonine kinase subfamily, Ste20. This subfamily is comprised of several mammalian kinases which exhibit sequence similarity to the Saccharomyces cerevisiae serine/threonine kinase Ste20, a protein involved in relaying signals from G protein-coupled receptors to cytosolic MAP kinase cascades. Members of this subfamily include KHS, GLK, YSK1, HPK1, Krs-1, Krs-2, GC kinase, HGK and SLK. SLK is a ubiquitously expressed protein that localizes to the cytoplasm and contains an N-terminal protein kinase domain, a central coiled-coil domain and a C-terminal ATH domain. SLK is activated through cleavage by caspase-3. SLK indirectly associates with microtubules and plays an important role in cellular

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	stress, cell motility, cell death and cytoskeletal dynamics. **Function:** SLK is a serine/threonine protein kinase that is involved in cytoskeletal reorganization and apoptosis. SLK is a microtubule-associated protein inducing actin stress fiber disassembly, it also mediates apoptosis and it is ubiquitously expressed; highest expression is found in heart and in skeletal muscle. There are two named isoforms. **Subcellular Location:** Cytoplasmic **Tissue Specificity:** Ubiquitously expressed. Highest expression is found in heart and in skeletal muscle. **Post-translational modifications:** Proteolytically cleaved by caspase-3. Autophosphorylated. Phosphorylated upon DNA damage, probably by ATM or ATR. **Similarity:** Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 protein kinase domain. Contains 1 UVR domain. **Database links:**

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