SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ARK5 antibody

Catalog Number: SL6251R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ARK5
Immunogen:	KLH conjugated synthetic peptide derived from human ARK5: 451-550/661
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:	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,Chicken,Dog,Pig,Cow,Horse)
Predicted MW.:	73kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	ARK5, a novel AMPK family member, is the tumor cell survival factor activated by Akt and acts as an ATM kinase under the conditions of nutrient starvation. It plays a key role in tumor malignancy downstream of Akt. Its overexpression is associated with tumor invasion and metastasis. **Function:** Involved in tolerance to glucose starvation. Phosphorylates ATM. Suppresses Fas-induced apoptosis by phosphorylation of CASP6, thus suppressing the activation of the caspase and the subsequent cleavage of CFLAR. **Subunit:** Interact (via GILK motif) with PPP1CB; the interaction is direct and bridges NUAK1 and PPP1R12A. **Subcellular Location:** Nucleus. Cytoplasm. **Tissue Specificity:** Expressed at high levels in heart and brain, and at lower levels in skeletal muscle, kidney, ovary, placenta, lung and liver. **Post-translational modifications:** Ubiquitinated with 'Lys-29'- and 'Lys-33'-linked polyubiquitins which appear to impede LKB1-mediated

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	phosphorylation. Deubiquitinated by USP9X. Phosphorylated at Thr-211 by STK11/LKB1 in complex with STE20-related adapter-alpha (STRADA) pseudo kinase and CAB39. Not dephosphorylated by the myosin PP1 complex when regulating its activity, due to the presence of PPP1R12A, which prevents myosin PP1 from dephosphorylating NUAK1. Phosphorylated by STK38L upon stimulation with IGF1. **Similarity:** Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. SNF1 subfamily. Contains 1 protein kinase domain. **SWISS:** O60285 **Gene ID:** 9891

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