SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-ICK antibody

Catalog Number: SL15536R

FOR RESEARCH USE ONLY

[DATASHEET]

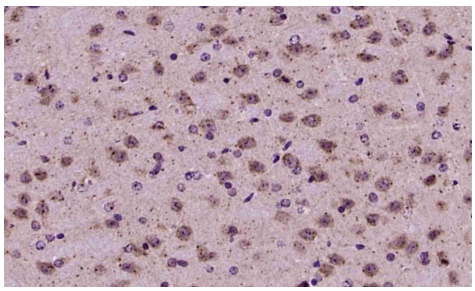
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ICK
Immunogen:	KLH conjugated synthetic peptide derived from human ICK: 1-100/632
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit)
Predicted MW.:	71kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	Eukaryotic protein kinases are enzymes that belong to a very extensive family of proteins which share a conserved catalytic core common with both serine/threonine and tyrosine protein kinases. This gene encodes an intestinal serine/threonine kinase harboring a dual phosphorylation site found in mitogen-activating protein (MAP) kinases. The protein localizes to the intestinal crypt region and is thought to be important in intestinal epithelial cell proliferation and differentiation. Alternative splicing has been observed at this locus and two variants, encoding the same isoform, have been identified. **Function:** May play a key role in the development of multiple organ systems and particularly in cardiac development. **Subcellular Location:** Nucleus. Cytoplasm, cytosol. Note=Nuclear localization has been observed with a GFP-tagged construct in transfected HeLa cells (PubMed:12103360). Cytosolic localization was shown in rat

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

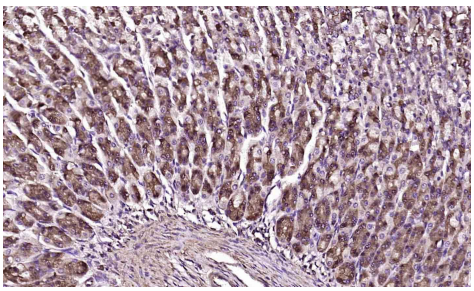
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	embryonic cardiomyocytes by immunostaining (PubMed:8570168). **Tissue Specificity:** Expressed in heart, brain, placenta, pancreas, thymus, prostate, testis, ovary, small intestine and colon, with highest levels in placenta and testis. Not detected in spleen. Also expressed in many cancer cell lines. **Post-translational modifications:** Autophosphorylated on serine and threonine residues. May play a role in enzyme activation. DISEASE: Endocrine-cerebroosteodysplasia (ECO) [MIM:612651]: Previously unidentified neonatal lethal recessive disorder with multiple anomalies involving the endocrine, cerebral, and skeletal systems. Note=The disease is caused by mutations affecting the gene represented in this entry. **Similarity:** Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 22858 Human **Entrez Gene:** 56542 Mouse **Entrez Gene:** 84411 Rat Omim: 612325 Human **SwissProt:** Q9UPZ9 Human **SwissProt:** Q9JKV2 Mouse **SwissProt:** Q62726 Rat **Unigene:** 417022 Human **Unigene:** 288719 Mouse **Unigene:** 3750 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ICK) Polyclonal Antibody, Unconjugated (SL15536R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ICK) Polyclonal Antibody, Unconjugated (SL15536R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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