



Rabbit Anti-ICK antibody

SL15536R

Product Name:	ICK
Chinese Name:	丝氨酸/苏氨酸蛋白激酶ICK抗体
Alias:	2210420N10Rik; AI848300; ECO; ICK_HUMAN; Heart serine threonine protein kinase; hICK; Intestinal cell (MAK like) kinase; Intestinal cell kinase; KIAA0936; Laryngeal cancer kinase 2; LCK2; MAK-related kinase; MAK related kinase; MGC46090; mICK; MRK; OTTMUSP00000041856; OTTMUSP00000041857; Serine/threonine-protein kinase ICK; Serine/threonine protein kinase ICK.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	71kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ICK:1-100/632
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 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-cerebroostedysplasia (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.

SWISS:
Q9UPZ9

Gene ID:
22858

Database links:

[Entrez Gene: 22858](#)Human

[Entrez Gene: 56542](#)Mouse

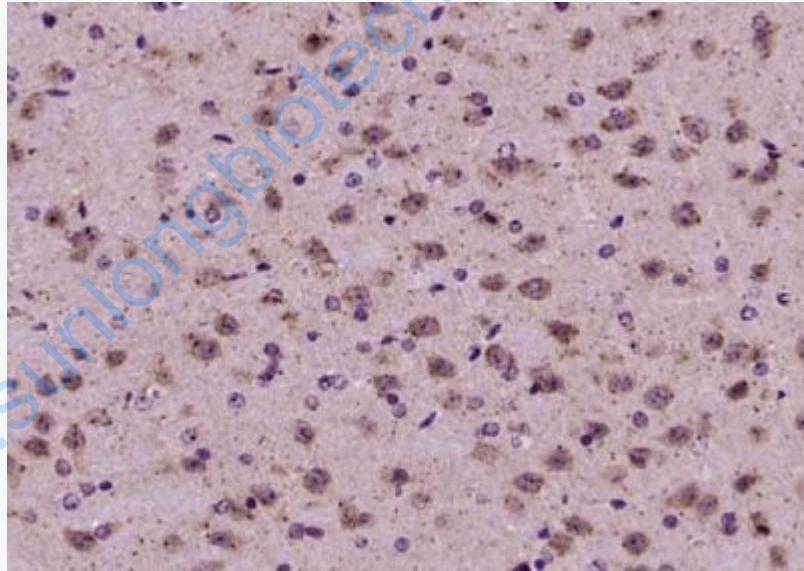
[Entrez Gene: 84411](#)Rat

[Oimim: 612325](#)Human
[SwissProt: Q9UPZ9](#)Human
[SwissProt: Q9JKV2](#)Mouse
[SwissProt: Q62726](#)Rat
[Unigene: 417022](#)Human
[Unigene: 288719](#)Mouse
[Unigene: 3750](#)Rat

Important Note:

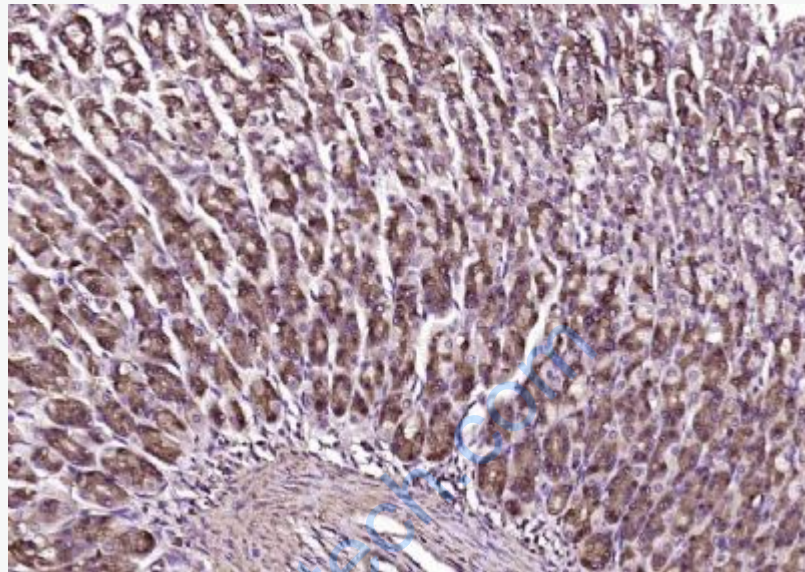
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Picture:



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) instructions and 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) instructions and DAB staining.