Product Name: Intestinal Cell Kinase (phospho Tyr159) Rabbit Polyclonal Antibody
Catalog #: APRab04858

Summary

Production Name	Intestinal Cell Kinase (phospho Tyr159) Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Phospho Antibody
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ICK
Alternative Names	ICK; KIAA0936; Serine/threonine-protein kinase ICK; Intestinal cell kinase; hICK; Laryngeal cancer kinase 2; LCK2; MAK-related kinase; MRK
Gene ID	22858.0
SwissProt ID	Q9UPZ9.The antiserum was produced against synthesized peptide derived from human ICK around the phosphorylation site of Tyr159. AA range:125-174

Application

Dilution Ratio	WB 1:500-2000 ELISA 2000-20000
Molecular Weight	71kD

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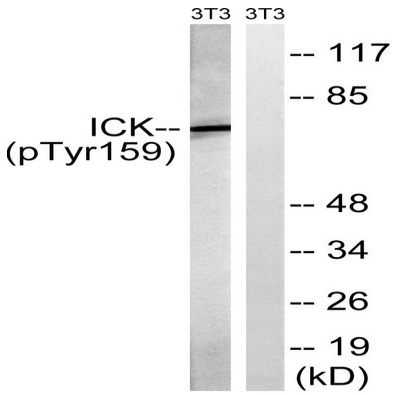
Background

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. [provided by RefSeq, Jul 2008],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,disease:Defects in ICK are the cause of endocrine-cerebroosteodysplasia (ECO) [MIM:612651]. ECO is a previously unidentified neonatal lethal recessive disorder with multiple anomalies involving the endocrine, cerebral, and skeletal systems.,function:May play a key role in the development of multiple organ systems and particularly in cardiac development.,PTM:Autophosphorylated on serine and threonine residues. May play a role in enzyme activation.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.,similarity:Contains 1 protein kinase domain.,subcellular location: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.,

Research Area

Image Data



Western blot analysis of lysates from NIH/3T3 cells treated with starved 24h, using ICK （Phospho-Tyr159） Antibody. The lane on the right is blocked with the phospho peptide.

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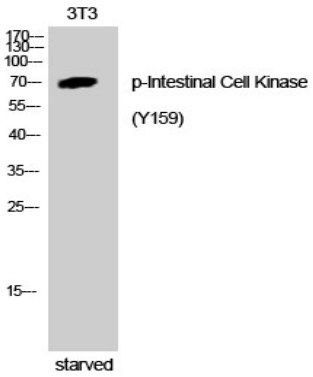

Western Blot analysis of 3T3 cells using Phospho-Intestinal Cell Kinase (Y159) Polyclonal Antibody

Note

For research use only.