

Rabbit ICK Polyclonal Antibody | anti-ICK antibody

Phospho-ICK (Tyr159) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327654	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

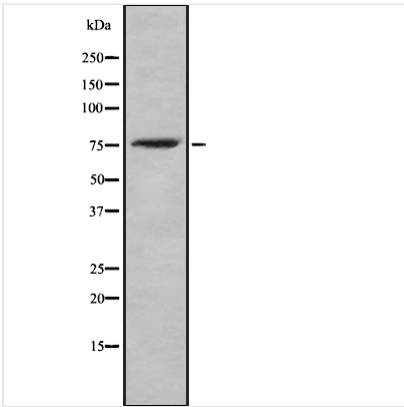
PRODUCT SYNONYMS

ICK; Polyclonal Antibody; Phospho-ICK (Tyr159) Antibody; 2210420N10Rik; A1848300; ECO; Heart serine threonine protein kinase; hICK; Intestinal cell (MAK like) kinase; Intestinal cell kinase; KIAA0936; Laryngeal cancer kinase 2; LCK2; MAK related kinase; MGC46090; mICK; MRK; OTTMUSP00000041856; OTTMUSP00000041857; Serine/threonine protein kinase ICK; anti-ICK antibody

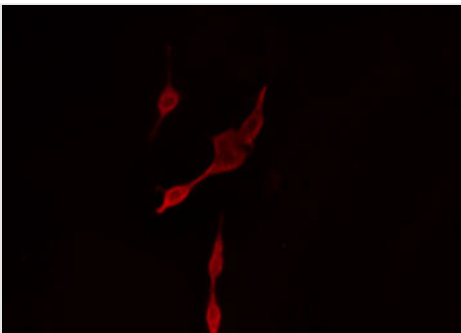
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-ICK (Tyr159) antibody detects endogenous levels of ICK only when phosphorylated at Tyr159
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	632
Applicable Applications for anti-ICK antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Phospho-ICK (Tyr159)
Subcellular Location	Cytoplasmic and Nuclear
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.
Conjugation	Unconjugated
Epitope	Phospho Tyr159
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of Phospho-ICK (Tyr159) using LOVO whole cell lysates



IF (Immunofluorescence)
AAA327654 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ICK antibody	Function: Required for ciliogenesis (PubMed:24797473). Phosphorylates KIF3A (By similarity). Involved in the control of ciliary length (PubMed:24853502). Regulates the ciliary localization of SHH pathway components as well as the localization of IFT components at ciliary tips (By similarity). May play a key role in the development of multiple organ systems and particularly in cardiac development (By similarity). Regulates intraflagellar transport (IFT) speed and negatively regulates cilium length in a cAMP and mTORC1 signaling-dependent manner and this regulation requires its kinase activity (By similarity). Post-translational Modifications: Autophosphorylated on serine and threonine residues. May play a role in enzyme activation. Similarity: Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7662388
NCBI GeneID	22858
NCBI Accession #	NP_055735.1
NCBI GenBank Nucleotide #	NM_014920.3
UniProt Accession #	Q9UPZ9; O75985; Q5THL2; Q8IYH8; Q9BX17; Q9NYX3; A7MD41
Molecular Weight	Observed: 71 kDa Predicted: 72 kDa
NCBI Official Full Name	serine/threonine-protein kinase ICK
NCBI Official Synonym Full Names	intestinal cell kinase
NCBI Official Symbol	ICK
NCBI Official Synonym Symbols	ECO; MRK; LCK2; EJM10
NCBI Protein Information	serine/threonine-protein kinase ICK
UniProt Protein Name	Serine/threonine-protein kinase ICK
UniProt Gene Name	ICK
UniProt Synonym Gene Names	KIAA0936; hICK; LCK2; MRK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

