

Anti-ICK Antibody

Rabbit polyclonal antibody to ICK
Catalog # AP60820

Product Information

Application	WB, IF/IC, IHC
Primary Accession	Q9UPZ9
Reactivity	Human, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71427

Additional Information

Gene ID	22858
Other Names	KIAA0936; Serine/threonine-protein kinase ICK; Intestinal cell kinase; hICK; Laryngeal cancer kinase 2; LCK2; MAK-related kinase; MRK
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ICK. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/2000), IHC (1/50 - 1/200), IF/IC (1/50 - 1/100) IF/IC~~N/A IHC~~WB (1/500 - 1/2000), IHC (1/50 - 1/200), IF/IC (1/50 - 1/100)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	CILK1
Synonyms	ICK, KIAA0936
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).
Cellular Location	Nucleus. Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q62726}. Cell

projection, cilium. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q9JKV2}. Note=Also found at the ciliary tip (PubMed:24797473). Nuclear localization has been observed with a GFP-tagged construct in transfected HeLa cells (PubMed:12103360, PubMed:19185282).

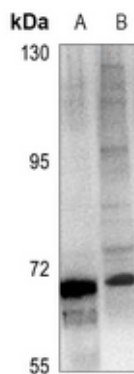
Tissue Location

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.

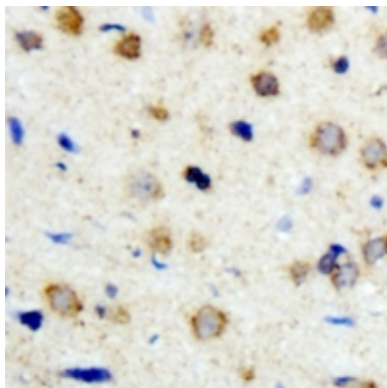
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ICK. The exact sequence is proprietary.

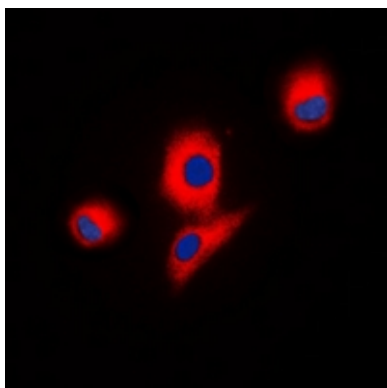
Images



Western blot analysis of ICK expression in U87MG (A), PC3 (B) whole cell lysates.



Immunohistochemical analysis of ICK staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of ICK staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).