

Anti-ICK Antibody

Rabbit Polyclonal Antibody

Catalog # ABV11866

Product Information

Application	WB, IHC, IF, ICC
Primary Accession	Q9UPZ9
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	71427

Additional Information

Gene ID	22858
Positive Control	WB: HeLa, HEL293 cell lysates; IHC: human brain tissue; IFC: HEK293T cells
Application & Usage	WB; 1:500 – 1:2000, IHC; 1:50 – 1:200, IF/IC; 1:50 – 1:100
Alias Symbol	ICK
Other Names	KIAA0936, Serine/threonine-protein kinase ICK, Intestinal cell kinase, hICK, Laryngeal cancer kinase 2, LCK2, MAK-related kinase, MRK
Appearance	Colorless liquid
Formulation	In 0.42% Potassium phosphate; 0.87% Sodium chloride; pH 7.3; 30% glycerol and 0.01% sodium azide
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Anti-ICK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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).

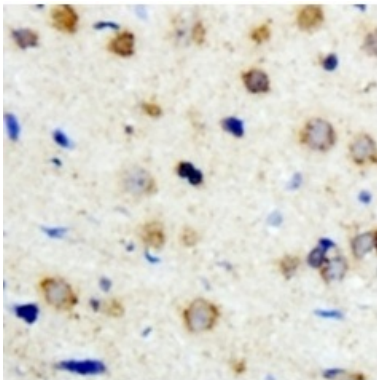
Tissue Location

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.

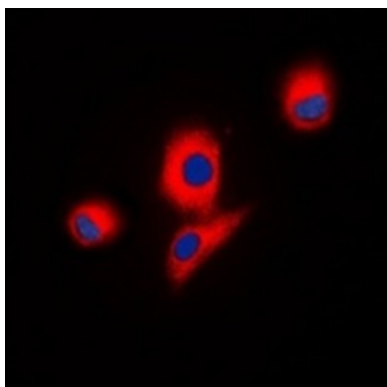
Background

Required for ciliogenesis. Phosphorylates KIF3A (By similarity). Involved in the control of ciliary length. 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.

Images

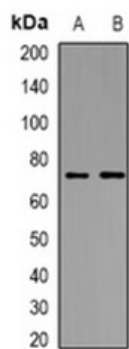


Immunohistochemical analysis of ICK staining in H.brain formalin fixed paraffin embedded tissue section.



Immunofluorescent analysis of ICK staining in HEK293T cells.

Western blot analysis of ICK expression in Hela(A); HEK293T(B) whole cell lysates.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.