ICK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ICK, Polyclonal Antibody
Full Product Name	ICK Antibody, Biotin conjugated
Product Gene Name	anti-ICK antibody
Product Synonym Names	Serine/threonine-protein kinase ICK; Intestinal cell kinase; hICK; Laryngeal cancer kinase 2; LCK2; MAK-related kinase; MRK; ICK; KIAA0936
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: ICK (MBS7051555) Biotin Conjugated Antibody: ICK (MBS7051558)
Molecular Weight	34,071 Da
OMIM	AF225919 mRNA
3D Structure	ModBase 3D Structure for Q9UPZ9
Immunogen	Recombinant Human Serine/threonine-protein kinase ICK protein (150-275AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	Biotin
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-365244 / sc-48020
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ICK antibody	ELISA (EIA)
Related Product Information for anti-ICK antibody	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).
Other Notes	Small volumes of anti-ICK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ICK purchase	MBS7051558 is an antibody targeting ICK. Also known as ICK Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ICK. It may not necessarily be applicable to this product.

NCBI GI #	7662388
NCBI GeneID	22858
NCBI Accession #	NP_055735.1
UniProt Primary Accession #	Q9UPZ9
UniProt Secondary Accession #	O75985; Q5THL2; Q8IYH8; Q9BX17; Q9NYX3; A7MD41
UniProt Related Accession #	Q9UPZ9
GenBank Nucleotide #	NM_014920.3
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
UniProt Protein Name	Serine/threonine-protein kinase ICK
UniProt Synonym Protein Names	Intestinal cell kinase; hICK; Laryngeal cancer kinase 2; LCK2; MAK-related kinase; MRK
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	ICK
UniProt Synonym Gene Names	KIAA0936; hICK; LCK2; MRK
UniProt Entry Name	ICK_HUMAN
NCBI Protein Information	serine/threonine-protein kinase ICK
NCBI Summary for ICK	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]
UniProt Comments for ICK	ICK: a CMGC kinase of the RCK family. May play a role in cardiac development. Expressed in heart, brain, placenta, pancreas, thymus, prostate, testis, ovary, small intestine and colon. Also expressed in many cancer cell lines. Two alternatively spliced isoforms have been described. Protein type: CMGC group; EC 2.7.11.22; Kinase, protein; Protein kinase, CMGC; Protein kinase, Ser/Thr (non-receptor); RCK family Chromosomal Location of Human Ortholog: 6p12.1 Cellular Component: cilium; nucleus Molecular Function: ATP binding; magnesium ion binding; protein binding; protein serine/threonine kinase activity Biological Process: intraflagellar transport; protein amino acid phosphorylation; signal transduction Disease: Endocrine-cerebroosteodysplasia
Research Articles on ICK	**1.** findings suggest that increased ICK expression/activity in response to protein deprivation likely provides a novel protective mechanism to limit apoptosis and support compensatory mucosal growth under nutritional stress.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/ick/7051558