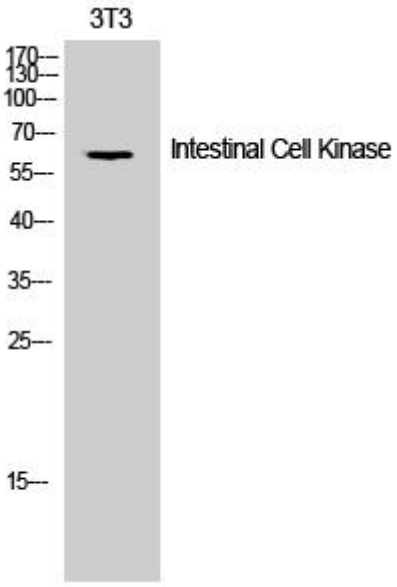
Intestinal Cell Kinase Monoclonal Antibody

Catalog No	BYmab-14791
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ICK
Protein Name	Serine/threonine-protein kinase ICK
Immunogen	The antiserum was produced against synthesized peptide derived from human ICK. AA range:125-174
Specificity	Intestinal Cell Kinase Monoclonal Antibody detects endogenous levels of Intestinal Cell Kinase protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ICK; KIAA0936; Serine/threonine-protein kinase ICK; Intestinal cell kinase; hICK; Laryngeal cancer kinase 2; LCK2; MAK-related kinase; MRK
Observed Band	65kD
Cell Pathway	Nucleus . Cytoplasm, cytosol . Cell projection, cilium . Cytoplasm, cytoskeleton, cilium basal body . 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). .; [Isoform 2]: Cytoplasm . Predominant cytoplasmic localization has been observed with a N-terminally GFP-tagged construct. .
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.
Function	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 wa
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Intestinal Cell Kinase Monoclonal Antibody