

ICK (M-40): sc-134510

BACKGROUND

Intestinal cell kinase (ICK), also designated MRK, LCK2, KIAA0936 and MGC46090, is a nuclear Cdc2-related kinase. ICK shares nearly identical N-terminal catalytic domains with male germ cell-associated kinase (MAK), however the C-terminal noncatalytic domain of intestinal cell kinase diverges from that of MAK. The catalytic domain of ICK is also related to mitogen-activated protein kinases (MAPKs) and harbors a corresponding TDY motif, the dual phosphorylation of which activates ICK. The phosphorylation of Tyr 159 in the TDY motif requires ICK autokinase activity, but confers only basal kinase activity; full activation of the protein requires additional phosphorylation of Thr 157 in the TDY motif.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ICK (human) mapping to 6p12.2; Ick (mouse) mapping to 9 E1.

SOURCE

ICK (M-40) is a rabbit polyclonal antibody raised against amino acids 571-610 mapping near the C-terminus of ICK of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ICK (M-40) is recommended for detection of ICK of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ICK (M-40) is also recommended for detection of ICK in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ICK siRNA (h): sc-60861, ICK siRNA (m): sc-60862, ICK shRNA Plasmid (h): sc-60861-SH, ICK shRNA Plasmid (m): sc-60862-SH, ICK shRNA (h) Lentiviral Particles: sc-60861-V and ICK shRNA (m) Lentiviral Particles: sc-60862-V.

Molecular Weight of ICK: 71 kDa.

Positive Controls: SW480 cell lysate: sc-2219, NIH/3T3 whole cell lysate: sc-2210 or NIH/3T3 nuclear extract: sc-2138.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


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 Satisfaction
 Guaranteed

Try **ICK (G-8): sc-365244**, our highly recommended monoclonal alternative to ICK (M-40).