ICK (G-8): sc-365244

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

SOURCE
ICK (G-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 579-611 near the C-terminus of ICK of mouse origin.

PRODUCT
Each vial contains 200 µg IgM kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-365244 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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

APPLICATIONS
ICK (G-8) is recommended for detection of ICK of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (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 (G-8) 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: HL-60 whole cell lysate: sc-2209, JAR cell lysate: sc-2276 or MDA-MB-231 cell lysate: sc-2232.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:

DATA

ICK (G-8): sc-365244. Western blot analysis of ICK expression in SW480 (A), PC-3 (B), JAR (C), HL-60 (D) and MDA-MB-231 (E) whole cell lysates.

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