**DICE1 (H-6): sc-376524**

**BACKGROUND**

DICE1 (deleted in cancer 1) is a protein mapping to chromosome 13q14.3, which appears to be a tumor suppressor gene in non-small cell lung carcinoma. Expression of DICE1 is lost or downregulated in most non-small lung carcinomas compared to normal lung tissue. This is most likely due to a loss of heterozygosity (LOH) of chromosome 13, which is prone to deletions and rearrangements in human lung cancers. The DICE1 gene is extremely homologous to the mouse protein, DBI-1, at the carboxy terminus. DBI-1, when expressed at high levels, interferes with the mitogenic response to IGF-1. Both DICE1 and DBI-1 contain the highly conserved DEAD-box motif, which suggests that these proteins are involved in critical aspects of cellular function and regulation.

**CHROMOSOMAL LOCATION**

Genetic locus: INTS6 (human) mapping to 13q14.3; Ints6 (mouse) mapping to 14 D1.

**SOURCE**

DICE1 (H-6) is a mouse monoclonal antibody raised against amino acids 713-826 mapping near the C-terminus of DICE1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DICE1 (H-6) is available conjugated to agarose (sc-376524 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376524 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376524 PE), fluorescein (sc-376524 FITC), Alexa Fluor® 488 (sc-376524 AF488), Alexa Fluor® 546 (sc-376524 AF546), Alexa Fluor® 594 (sc-376524 AF594) or Alexa Fluor® 647 (sc-376524 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; to either Alexa Fluor® 680 (sc-376524 AF680) or Alexa Fluor® 790 (sc-376524 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

DICE1 (H-6) is recommended for detection of DICE1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:300-1:3000).

Suitable for use as control antibody for DICE1 siRNA (h): sc-45802, DICE1 siRNA (m): sc-45803, DICE1 shRNA Plasmid (h): sc-45802-SH, DICE1 shRNA Plasmid (m): sc-45803-SH, DICE1 shRNA (h) Lentiviral Particles: sc-45802-V and DICE1 shRNA (m) Lentiviral Particles: sc-45803-V.

Molecular Weight of DICE1: 100 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Hep G2 cell lysate: sc-2227.

**RESEARCH USE**

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

**STORAGE**

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

**DATA**

DICE1 (H-6): sc-376524. Western blot analysis of DICE1 expression in Hep G2 [A] and HeLa [B] whole cell lysates.

DICE1 (H-6): sc-376524. Immunofluorescence staining of formalin-fixed Hep G2 [A] and SW480 [B] cells showing nuclear localization.

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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

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