**BACKGROUND**

The SNF2 family of helicases are thought to act as transcriptional regulators by their ability to alter the structure of chromatin. One such member, lymphoid-specific helicase (Lsh, also designated Hells for lymphoid-specific DNA helicase), is highly expressed in lymphoid precursor cells in adult animals and is required for the proliferation of peripheral T lymphocytes. Lsh is also expressed in fetal liver and more abundantly in fetal thymus. Lsh protein shows substantial homology to other members of the SNF2 family that are involved in chromatin remodeling and transcription, however does not show similarity to members involved in DNA repair or recombination. The similarity of Lsh to another SNF2 homolog, Mi-2, which functions as a transcriptional silencer in chromatin remodeling, suggests that Lsh may participate in chromatin repression to regulate transcription, rather than chromatin “opening”.

**CHROMOSOMAL LOCATION**

Genetic locus: HELLS (human) mapping to 10q23.33; Hells (mouse) mapping to 19 C3.

**SOURCE**

Lsh (H-4) is a mouse monoclonal antibody raised against amino acids 1-240 mapping at the N-terminus of Lsh 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.

Lsh (H-4) is available conjugated to agarose (sc-46665 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-46665 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-46665 PE), fluorescein (sc-46665 FITC), Alexa Fluor® 488 (sc-46665 AF488), Alexa Fluor® 546 (sc-46665 AF546), Alexa Fluor® 594 (sc-46665 AF594) or Alexa Fluor® 647 (sc-46665 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and ELM; to either Alexa Fluor® 680 (sc-46665 AF680) or Alexa Fluor® 790 (sc-46665 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

Lsh (H-4) is recommended for detection of Lsh of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:5000), 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).


Molecular Weight of Lsh: 100 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, BW5147 cell lysate: sc-3800 or JM1 whole cell lysate: sc-364233.

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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