SANTA CRUZ BIOTECHNOLOGY, INC.

MASL1 (H-1): sc-390556

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The leucine-rich (LRR) repeat is a 20-30 amino acid motif that forms a hydrophobic α/β horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRR repeats contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. MASL1, also known as MFHAS1 (malignant fibrous histiocytoma amplified sequence 1) or LRRC65, is a 1,052 amino acid protein that contains 13 LRR repeats, which are thought to function as structural components for protein-protein interactions during the cell cycle. Ubiquitously expressed, MASL1 is upregulated in malignant fibrous histiocytomas, suggesting that, via its ability to mediate protein interactions during the cell cycle, MASL1 may play a role in tumorigenesis. The gene encoding MASL1 is subject to a chromosomal aberration that is thought to be a cause of B-cell lymphoma, further implying a role for MASL1 in tumor formation.

CHROMOSOMAL LOCATION

Genetic locus: MFHAS1 (human) mapping to 8p23.1; Mfhas1 (mouse) mapping to 8 A4.

SOURCE

MASL1 (H-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 985-1008 of MASL1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 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-390556 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

MASL1 (H-1) is recommended for detection of MASL1 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 1:30-1:3000).

MASL1 (H-1) is also recommended for detection of MASL1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for MASL1 siRNA (h): sc-77672, MASL1 siRNA (m): sc-149279, MASL1 shRNA Plasmid (h): sc-77672-SH, MASL1 shRNA Plasmid (m): sc-149279-SH, MASL1 shRNA (h) Lentiviral Particles: sc-77672-V and MASL1 shRNA (m) Lentiviral Particles: sc-149279-V.

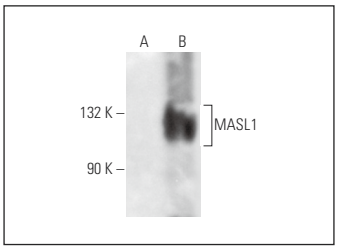
Molecular Weight of MASL1: 117 kDa.

Positive Controls: MASL1 (h): 293T Lysate: sc-369398, A-673 cell lysate: sc-2414 or CCRF-CEM cell lysate: sc-2225.

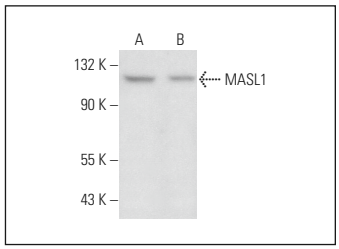
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



MASL1 (H-1): sc-390556. Western blot analysis of MASL1 expression in non-transfected: sc-117752 (**A**) and human MASL1 transfected: sc-369398 (**B**) 293T whole cell lysates.



MASL1 (H-1): sc-390556. Western blot analysis of MASL1 expression in CCRF-CEM (**A**) and A-673 (**B**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Zhong, J., et al. 2017. Ubiquitylation of MFHAS1 by the ubiquitin ligase praja2 promotes M1 macrophage polarization by activating JNK and p38 pathways. Cell Death Dis. 8: e2763.
2. Zhong, J., et al. 2018. Correction: ubiquitylation of MFHAS1 by the ubiquitin ligase praja2 promotes M1 macrophage polarization by activating JNK and p38 pathways. Cell Death Dis. 9: 782.

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 for detailed protocols and support products.