

MNSF- β (C-18): sc-50845

BACKGROUND

The ubiquitin (Ub) pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub and Ub-like molecules to specific protein substrates. The first step requires the ATP-dependent activation of the Ub C-terminus and the assembly of multi-Ub chains by the Ub-activating enzyme known as the E1 component. The Ub chain is then conjugated to the Ub-conjugating enzyme (E2) to generate an intermediate Ub-E2 complex. The Ub-ligase (E3) then catalyzes the transfer of Ub from E2 to the appropriate protein substrate. A wide range of enzymes facilitate in the proteolytic Ub pathway, including monoclonal nonspecific suppressor factor- β (MNSF- β), a subunit of MNSF, which is a lymphokine product of a murine T cell hybridoma that restricts the production of LPS-induced immunoglobulin secreting cells in an antigen-nonspecific manner. MNSF- β is a ubiquitin-like fusion protein consisting of the ribosomal protein S30 and a protein that shares 36% sequence identity with ubiquitin. This ubiquitin-like segment (Ubi-L) can be cleaved from MNSF- β in the cytosol.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAU (human) mapping to 11q13.1; Fau (mouse) mapping to 19 A.

SOURCE

MNSF- β (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of MNSF- β of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-50845 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MNSF- β (C-18) is recommended for detection of MNSF- β of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

MNSF- β (C-18) is also recommended for detection of MNSF- β in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for MNSF- β siRNA (h): sc-61063, MNSF- β siRNA (m): sc-61064, MNSF- β shRNA Plasmid (h): sc-61063-SH, MNSF- β shRNA Plasmid (m): sc-61064-SH, MNSF- β shRNA (h) Lentiviral Particles: sc-61063-V and MNSF- β shRNA (m) Lentiviral Particles: sc-61064-V.

Molecular Weight of MNSF- β : 15 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (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.