

MBL-A (M-54): sc-292358

BACKGROUND

MBL-A, also known as Mbl1 (mannose-binding lectin (protein A) 1) or RaRF p28B, is a 239 amino acid mouse protein that is localized predominately to the Golgi apparatus and the rough endoplasmic reticulum and contains one collagen-like domain and one C-type lectin domain. Existing in an oligomeric complex composed of six homotrimers, MBL-A functions to bind N-acetylglucosamine and mannose in a Ca²⁺-dependent manner and, via this interaction, is able to activate the classical complement pathway, thereby providing host defense against invasive pathogens. Due to its involvement in the innate immune system, MBL-A is involved in the pathogenesis of a variety of afflictions, including diabetes, acute septic peritonitis, asthma, cancer and bacterial and viral infections.

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RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: Mbl1 (mouse) mapping to 14 B.

SOURCE

MBL-A (M-54) is a rabbit polyclonal antibody raised against amino acids 97-150 mapping within an internal region of MBL-A of mouse origin.

PRODUCT

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

APPLICATIONS

MBL-A (M-54) is recommended for detection of MBL-A of mouse and rat origin by Western Blotting (starting dilution 1:200, 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).

Suitable for use as control antibody for MBL-A siRNA (m): sc-106208, MBL-A shRNA Plasmid (m): sc-106208-SH and MBL-A shRNA (m) Lentiviral Particles: sc-106208-V.

Molecular Weight of MBL-A: 25 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

PROTOCOLS

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