

MBLAC1 (N-16): sc-243425

BACKGROUND

MBLAC1 (metallo- β -lactamase domain-containing protein 1) is a 266 amino acid protein that belongs to the metallo- β -lactamase superfamily, glyoxalase II family. The gene that encodes MBLAC1 maps to human chromosome 7, which is about 158 million bases long, encodes over 1,000 genes and makes up about 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. The deletion of a portion of the q arm of chromosome 7 is associated with Williams-Beuren syndrome, a condition characterized by mild mental retardation, an unusual comfort and friendliness with strangers and an elfin appearance. Deletions of portions of the q arm of chromosome 7 are also seen in a number of myeloid disorders including cases of acute myelogenous leukemia and myelodysplasia.

REFERENCES

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RESEARCH USE

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

CHROMOSOMAL LOCATION

Genetic locus: MBLAC1 (human) mapping to 7q22.1; Mblac1 (mouse) mapping to 5 G2.

SOURCE

MBLAC1 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of MBLAC1 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-243425 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MBLAC1 (N-16) is recommended for detection of MBLAC1 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).

MBLAC1 (N-16) is also recommended for detection of MBLAC1 in additional species, including bovine.

Suitable for use as control antibody for MBLAC1 siRNA (h): sc-89665, MBLAC1 siRNA (m): sc-141581, MBLAC1 shRNA Plasmid (h): sc-89665-SH, MBLAC1 shRNA Plasmid (m): sc-141581-SH, MBLAC1 shRNA (h) Lentiviral Particles: sc-89665-V and MBLAC1 shRNA (m) Lentiviral Particles: sc-141581-V.

Molecular Weight of MBLAC1: 27 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.

PROTOCOLS

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