

MBLAC2 (S-12): sc-136735

BACKGROUND

MBLAC2 (metallo- β -lactamase domain-containing protein 2), also known as β -lactamase-like, is a 279 amino acid protein that belongs to the glyoxalase II family and metallo- β -lactamase superfamily. Existing as two alternatively spliced isoforms, MBLAC2 binds two zinc ions and is encoded by a gene that maps to human chromosome 5q14.3. Chromosome 5 contains 181 million base pairs and comprises nearly 6% of the human genome. Chromosome 5 is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5-associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MBLAC2 (human) mapping to 5q14.3; Mblac2 (mouse) mapping to 13 C3.

SOURCE

MBLAC2 (S-12) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of MBLAC2 of human origin.

PRODUCT

Each vial contains 100 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-136735 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MBLAC2 (S-12) is recommended for detection of MBLAC2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

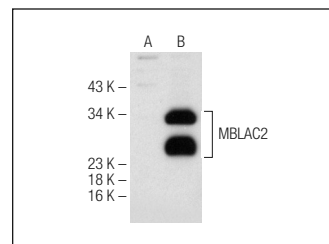
MBLAC2 (S-12) is also recommended for detection of MBLAC2 in additional species, including bovine and porcine.

Suitable for use as control antibody for MBLAC2 siRNA (h): sc-92045, MBLAC2 siRNA (m): sc-108869, MBLAC2 shRNA Plasmid (h): sc-92045-SH, MBLAC2 shRNA Plasmid (m): sc-108869-SH, MBLAC2 shRNA (h) Lentiviral Particles: sc-92045-V and MBLAC2 shRNA (m) Lentiviral Particles: sc-108869-V.

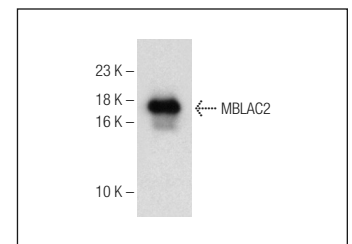
Molecular Weight of MBLAC2 isoforms: 31/22 kDa.

Positive Controls: MBLAC2 (h): 293T Lysate: sc-115432 or mouse small intestine extract: sc-364252.

DATA



MBLAC2 (S-12): sc-136735. Western blot analysis of MBLAC2 expression in non-transfected: sc-117752 (A) and human MBLAC2 transfected: sc-115432 (B) 293T whole cell lysates.



MBLAC2 (S-12): sc-136735. Western blot analysis of MBLAC2 expression in mouse small intestine tissue extract.

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.



Try **MBLAC2 (E-7): sc-398153** or **MBLAC2 (A-4): sc-398284**, our highly recommended monoclonal alternatives to MBLAC2 (S-12).