

# MIC1 (L-14): sc-85064

## BACKGROUND

MIC1, also known as C18orf8, is a 657 amino acid protein that contains one MIC1 domain and is encoded by a gene which maps to human chromosome 18. Chromosome 18 houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

## REFERENCES

1. Carstea, E.D., Polymeropoulos, M.H., Parker, C.C., Detera-Wadleigh, S.D., O'Neill, R.R., Patterson, M.C., Goldin, E., Xiao, H., Straub, R.E., Vanier, M.T., et al. 1993. Linkage of Niemann-Pick disease type C to human chromosome 18. *Proc. Natl. Acad. Sci. USA* 90: 2002-2004.
2. Petek, E., Pertl, B., Tschernigg, M., Bauer, M., Mayr, J., Wagner, K. and Kroisel, P.M. 2003. Characterisation of a 19-year-old "long-term survivor" with Edwards syndrome. *Genet. Couns.* 14: 239-244.
3. Raghavan, S.C., Swanson, P.C., Wu, X., Hsieh, C.L. and Lieber, M.R. 2004. A non-B-DNA structure at the Bcl-2 major breakpoint region is cleaved by the RAG complex. *Nature* 428: 88-93.
4. Grosso, S., Pucci, L., Di Bartolo, R.M., Gobbi, G., Bartalini, G., Anichini, C., Scarinci, R., Balestri, M., Farnetani, M.A., Cioni, M., Morgese, G. and Balestri, P. 2005. Chromosome 18 aberrations and epilepsy: a review. *Am. J. Med. Genet. A* 134: 88-94.
5. Aurizi, C., Schneider-Yin, X., Sorge, F., Macrì, A., Minder, E.I. and Biolcati, G. 2007. Heterogeneity of mutations in the ferrochelatase gene in Italian patients with erythropoietic protoporphyria. *Mol. Genet. Metab.* 90: 402-407.
6. Broderick, P., Carvajal-Carmona, L., Pittman, A.M., Webb, E., Howarth, K., Rowan, A., Lubbe, S., Spain, S., Sullivan, K., Fielding, S., Jaeger, E., Vijaykrishnan, J., Kemp, Z., Gorman, M., Chandler, I., Papaemmanuil, E., Penegar, S., Wood, W., Sellick, G., et al. 2007. A genome-wide association study shows that common alleles of SMAD7 influence colorectal cancer risk. *Nat. Genet.* 39: 1315-1317.

## CHROMOSOMAL LOCATION

Genetic locus: C18orf8 (human) mapping to 18q11.2; 3110002H16Rik (mouse) mapping to 18 A1.

## SOURCE

MIC1 (L-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of MIC1 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85064 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MIC1 (L-14) is recommended for detection of MIC1 of mouse, rat and human 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); non cross-reactive with MIC2, MICA, and MICB.

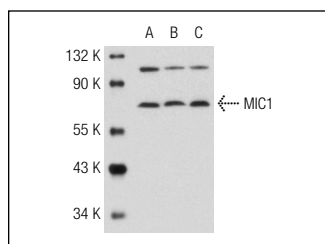
MIC1 (L-14) is also recommended for detection of MIC1 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for MIC1 siRNA (h): sc-75782, MIC1 siRNA (m): sc-149421, MIC1 shRNA Plasmid (h): sc-75782-SH, MIC1 shRNA Plasmid (m): sc-149421-SH, MIC1 shRNA (h) Lentiviral Particles: sc-75782-V and MIC1 shRNA (m) Lentiviral Particles: sc-149421-V.

Molecular Weight of MIC1: 75 kDa.

Positive Controls: Ramos nuclear extract: sc-2153, K-562 nuclear extract: sc-2130 or BJAB nuclear extract: sc-2145.

## DATA



MIC1 (L-14): sc-85064. Western blot analysis of MIC1 expression in BJAB (A), Ramos (B) and K-562 (C) nuclear extracts.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

**MONOS**  
Satisfaction  
Guaranteed

Try **MIC1 (D-7): sc-390305**, our highly recommended monoclonal alternative to MIC1 (L-14).