

2310004I24Rik (I-18): sc-166995

BACKGROUND

2310004I24Rik, also known as ADPRibase-Mn or manganese-dependent ADP-ribose/CDP-alcohol diphosphatase, is a 340 amino acid mouse protein that belongs to the ADPRibase-Mn family and exists as 2 alternatively spliced isoforms. While it hydrolyzes ADP-ribose, IDP-ribose, CDP-glycerol, CDP-choline and CDP-ethanolamine, 2310004I24Rik may be involved in immune cell signaling as suggested by the second-messenger role of ADP-ribose, which activates TRPM2 as a mediator of oxidative/nitrosative stress. The human homolog of 2310004I24Rik, known as C17orf48, is a 342 amino acid protein that belongs to the ADPRibase-Mn family and exists as 2 alternatively spliced isoforms. The gene encoding C17orf48 consists of approximately 13,949 bases and maps to human chromosome 17.

REFERENCES

- Hall, J.M., et al. 1992. Closing in on a breast cancer gene on chromosome 17q. *Am. J. Hum. Genet.* 50: 1235-1242.
- Evans, S.C. and Lozano, G. 1997. The Li-Fraumeni syndrome: an inherited susceptibility to cancer. *Mol. Med. Today* 3: 390-395.
- Varley, J.M., et al. 1997. A detailed study of loss of heterozygosity on chromosome 17 in tumours from Li-Fraumeni patients carrying a mutation to the TP53 gene. *Oncogene* 14: 865-871.
- Kersemaekers, A.M., et al. 1998. Loss of heterozygosity for defined regions on chromosomes 3, 11 and 17 in carcinomas of the uterine cervix. *Br. J. Cancer* 77: 192-200.
- Soussi, T., et al. 2000. p53 website and analysis of p53 gene mutations in human cancer: forging a link between epidemiology and carcinogenesis. *Hum. Mutat.* 15: 105-113.
- Piura, B., et al. 2001. Three primary malignancies related to BRCA1 mutation successively occurring in a BRCA1 185delAG mutation carrier. *Eur. J. Obstet. Gynecol. Reprod. Biol.* 97: 241-244.
- Minamoto, T., et al. 2001. Distinct pattern of p53 phosphorylation in human tumors. *Oncogene* 20: 3341-3347.

CHROMOSOMAL LOCATION

Genetic locus: 2310004I24Rik (mouse) mapping to 11 B3.

SOURCE

2310004I24Rik (I-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of 2310004I24Rik 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.

Blocking peptide available for competition studies, sc-166995 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

2310004I24Rik (I-18) is recommended for detection of 2310004I24Rik of mouse origin and RGD1309906 of 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 2310004I24Rik siRNA (m): sc-108647, 2310004I24Rik shRNA Plasmid (m): sc-108647-SH and 2310004I24Rik shRNA (m) Lentiviral Particles: sc-108647-V.

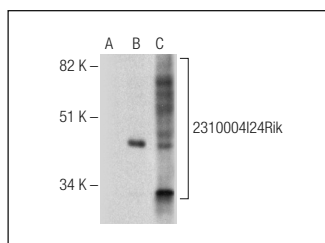
Molecular Weight of 2310004I24Rik isoforms: 39/24 kDa.

Positive Controls: 2310004I24Rik (m): 293T Lysate: sc-124866, NRK whole cell lysate: sc-364197 or rat liver extract: sc-2395.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



2310004I24Rik (I-18): sc-166995. Western blot analysis of 2310004I24Rik expression in non-transfected 293T: sc-117752 (A), mouse 2310004I24Rik transfected 293T: sc-124866 (B) whole cell lysates and rat liver tissue extract (C).

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.