SANTA CRUZ BIOTECHNOLOGY, INC.

Med29 (G-6): sc-390993

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

In mammalian cells, transcription is regulated in part by high molecular weight co-activating complexes that mediate signals between transcriptional activators and RNA polymerase II (Pol II). The mediator complex is one such multi-protein structure that functions as a bridge between regulatory proteins and Pol II, thereby regulating Pol II-dependent transcription. Med29 (mediator complex subunit 29), also known as IXL (intersex-like), is a 200 amino acid nuclear protein and component of the mediator complex. Widely expressed in embryo and adult tissue, Med29 is considered a novel amplification target gene in pancreatic cancer and is encoded by a gene that maps to human chromosome 19q13.2. Chromosome 19 consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes.

REFERENCES

1. Sato, S., et al. 2003. A mammalian homolog of *Drosophila melanogaster* transcriptional coactivator intersex is a subunit of the mammalian mediator complex. J. Biol. Chem. 278: 49671-49674.
2. Wang, Y., et al. 2004. IXL, a new subunit of the mammalian mediator complex, functions as a transcriptional suppressor. Biochem. Biophys. Res. Commun. 325: 1330-1338.
3. Tomomori-Sato, C., et al. 2004. A mammalian mediator subunit that shares properties with *Saccharomyces cerevisiae* mediator subunit Cse2. J. Biol. Chem. 279: 5846-5851.
4. Sato, S., et al. 2004. A set of consensus mammalian Mediator subunits identified by multidimensional protein identification technology. Mol. Cell 14: 685-691.
5. Zhang, X., et al. 2005. MED1/TRAP220 exists predominantly in a TRAP/Mediator subpopulation enriched in RNA polymerase II and is required for ER-mediated transcription. Mol. Cell 19: 89-100.
6. Kuuselo, R., et al. 2007. Intersex-like (IXL) is a cell survival regulator in pancreatic cancer with 19q13 amplification. Cancer Res. 67: 1943-1949.
7. Online Mendelian Inheritance in Man, OMIM™. 2009. Johns Hopkins University, Baltimore, MD. MIM Number: 612914. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

CHROMOSOMAL LOCATION

Genetic locus: MED29 (human) mapping to 19q13.2; Med29 (mouse) mapping to 7 A3.

SOURCE

Med29 (G-6) is a mouse monoclonal antibody raised against amino acids 63-221 mapping at the C-terminus of Med29 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Med29 (G-6) is recommended for detection of Med29 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 Med29 siRNA (h): sc-97527, Med29 siRNA (m): sc-149354, Med29 shRNA Plasmid (h): sc-97527-SH, Med29 shRNA Plasmid (m): sc-149354-SH, Med29 shRNA (h) Lentiviral Particles: sc-97527-V and Med29 shRNA (m) Lentiviral Particles: sc-149354-V.

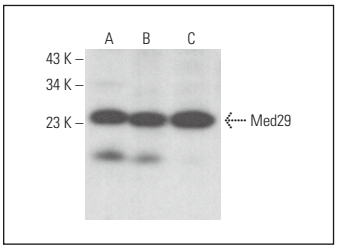
Molecular Weight of Med29: 21 kDa.

Positive Controls: A549 cell lysate: sc-2413, SUP-T1 whole cell lysate: sc-364796 or NTERA-2 cl.D1 whole cell lysate: sc-364181.

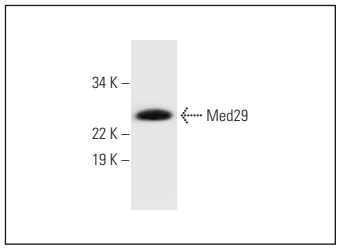
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Med29 (G-6): sc-390993. Western blot analysis of Med29 expression in A549 (**A**), SUP-T1 (**B**) and HeLa (**C**) whole cell lysates.



Med29 (G-6): sc-390993. Western blot analysis of Med29 expression in NTERA-2 cl.D1 whole cell lysate.

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 for detailed protocols and support products.