MORF4L1 (E-8): sc-514877

BACKGROUND
The members of the mortality factor family include mortality factor 4 (MORF4), MORF4L1 (also known as MRG15) and MORF4-related gene X (MRGX). The human MORF4 gene maps to chromosome 4q33-q34.1. MORF4 induces a senescent-like phenotype in complement group B immortal cell lines. The genes encoding MRG15 and MRGX map to chromosomes 15q25.1 and Xq22, respectively. MORF4, MORF4L1 and MRGX each contain a C-terminal leucine zipper. An association between MORF4L1, Rb (retinoblastoma tumor suppressor) and PAM14 (protein associated with MORF4L1) suggests a role for MORF4L1 in transcription regulation. MORF4L1 also associates with the histone acetyltransferase MOF. In addition, MORF4 and MRGX interact with mSin3A and TLE (transducin-like enhancer of split). The MORF/mSin3A/TLE association may repress transcription. In Purkinje cells, MORF4L1 localizes to the dendrites and the nuclei.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: MORF4L1 (human) mapping to 15q25.1; MORF4L1 (mouse) mapping to 9 E3.1.

SOURCE
MORF4L1 (E-8) is a mouse monoclonal antibody raised against amino acids 1-51 mapping at the N-terminus of MORF4L1 of human origin.

PRODUCT
Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

MORF4L1 (E-8) is available conjugated to agarose (sc-514877 AC), 500 µg/0.25 ml agarose in 1 ml; for IP; to HRP (sc-514877 HRP), 200 µg/ml for WB, IHCIP and ELISA; to either phycoerythrin (sc-514877 PE), fluorescein (sc-514877 FITC), Alexa Fluor® 488 (sc-514877 AF488), Alexa Fluor® 546 (sc-514877 AF546), Alexa Fluor® 594 (sc-514877 AF594) or Alexa Fluor® 647 (sc-514877 AF647), 200 µg/ml for WB (RGB), IF, IHCIP and FCM; and to either Alexa Fluor® 680 (sc-514877 AF680) or Alexa Fluor® 790 (sc-514877 AF790), 200 µg/ml for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS
MORF4L1 (E-8) is recommended for detection of MORF4L1 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).

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.

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.