

Mrf-1 (C-14): sc-137607

BACKGROUND

Mrf-1 (modulator recognition factor 1), also known as ARID5A (AT rich interactive domain 5A (MRF1-like)), is a 594 amino acid nuclear protein that is thought to function as a repressor which downregulates enhancer-dependent gene expression. Like other members of the ARID family, Mrf-1 contains an ARID domain and is suggested to have a role in regulation of cell growth, development or tissue-specific gene expression. The gene encoding Mrf-1 maps to human chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2 including Harlequin ichthyosis, sitosterolemia and Alström syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ARID5A (human) mapping to 2q11.2; Arid5a (mouse) mapping to 1 B.

SOURCE

Mrf-1 (C-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Mrf-1 of human 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-137607 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Mrf-1 (C-14) is recommended for detection of Mrf-1 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 Mrf-2.

Mrf-1 (C-14) is also recommended for detection of Mrf-1 in additional species, including canine and porcine.

Suitable for use as control antibody for Mrf-1 siRNA (h): sc-94488, Mrf-1 siRNA (m): sc-149551, Mrf-1 shRNA Plasmid (h): sc-94488-SH, Mrf-1 shRNA Plasmid (m): sc-149551-SH, Mrf-1 shRNA (h) Lentiviral Particles: sc-94488-V and Mrf-1 shRNA (m) Lentiviral Particles: sc-149551-V.

Molecular Weight of Mrf-1: 64 kDa.

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) 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.

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.