

LYRM7 (C-16): sc-164944

BACKGROUND

LYRM7 (LYR motif-containing protein 7) is a 104 amino acid member of the complex I LYR family and is encoded by a gene located on human chromosome 5. With 181 million base pairs encoding around 1,000 genes, chromosome 5 is about 6% of human genomic DNA. Chromosome 5 is associated with Cockayne syndrome through the ERCC8 gene and familial adenomatous polyposis through the adenomatous polyposis coli (APC) tumor suppressor gene. Treacher Collins syndrome is also chromosome 5 associated and is caused by insertions or deletions within the TCOF1 gene. Deletion of the p arm of chromosome 5 leads to Cri du chat syndrome. Deletion of 5q or chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LYRM7 (human) mapping to 5q23.3; Lyrm7 (mouse) mapping to 11 B1.3.

SOURCE

LYRM7 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of LYRM7 of human origin.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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-164944 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LYRM7 (C-16) is recommended for detection of LYRM7 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 other LYRM family members.

LYRM7 (C-16) is also recommended for detection of LYRM7 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for LYRM7 siRNA (h): sc-91683, LYRM7 siRNA (m): sc-149188, LYRM7 shRNA Plasmid (h): sc-91683-SH, LYRM7 shRNA Plasmid (m): sc-149188-SH, LYRM7 shRNA (h) Lentiviral Particles: sc-91683-V and LYRM7 shRNA (m) Lentiviral Particles: sc-149188-V.

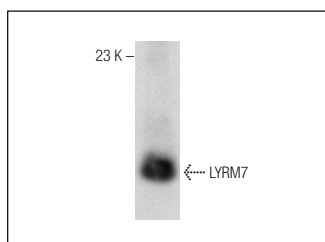
Molecular Weight of LYRM7: 12 kDa.

Positive Controls: Mouse heart extract: sc-2254.

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



LYRM7 (C-16): sc-164944. Western blot analysis of LYRM7 expression in mouse heart tissue extract.

RESEARCH USE

For research use only, not for use in diagnostic procedures.