

C5orf45 (Y-15): sc-241317

BACKGROUND

With 181 million base pairs encoding around 1,000 genes, chromosome 5 is about 6% of human genomic DNA. It 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. The C5orf45 gene product has been provisionally designated C5orf45 pending further characterization.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: C5orf45 (human) mapping to 5q35.3; 3010026009Rik (mouse) mapping to 11 B1.3.

SOURCE

C5orf45 (Y-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C5orf45 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-241317 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

C5orf45 (Y-15) is recommended for detection of C5orf45 of human origin, 3010026009Rik of mouse origin, and RGD1564036 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).

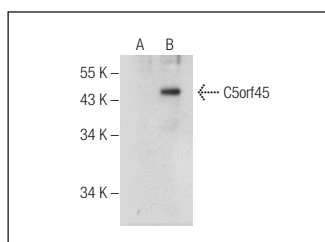
C5orf45 (Y-15) is also recommended for detection of C5orf45 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C5orf45 siRNA (h): sc-91698, 3010026009Rik siRNA (m): sc-108890, C5orf45 shRNA Plasmid (h): sc-91698-SH, 3010026009Rik shRNA Plasmid (m): sc-108890-SH, C5orf45 shRNA (h) Lentiviral Particles: sc-91698-V and 3010026009Rik shRNA (m) Lentiviral Particles: sc-108890-V.

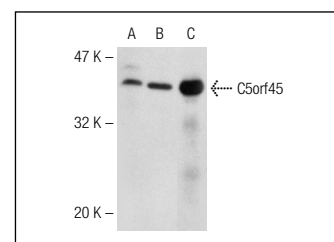
Molecular Weight of C5orf45 isoform: 38/29 kDa.

Positive Controls: C5orf45 (h): 293T Lysate: sc-370761, HeLa whole cell lysate: sc-2200 or rat skeletal muscle extract: sc-364810.

DATA



C5orf45 (Y-15): sc-241317. Western blot analysis of C5orf45 expression in non-transfected: sc-117752 (A) and human C5orf45 transfected: sc-370761 (B) 293T whole cell lysates.



C5orf45 (Y-15): sc-241317. Western blot analysis of C5orf45 expression in HEK293 (A) and HeLa (B) whole cell lysates and rat skeletal muscle tissue extract (C).

RESEARCH USE

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

MONOS
Satisfaction
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Try **C5orf45 (H-11): sc-390012**, our highly recommended monoclonal alternative to C5orf45 (Y-15).