

C9orf114 (G-15): sc-240163

BACKGROUND

C9orf114 (chromosome 9 open reading frame 114) is a 376 amino acid protein encoded by a gene that maps to human chromosome 9q34.11. Chromosome 9 consists of about 145 million bases, represents 4% of the human genome and encodes nearly 900 genes. Thought to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene encoding endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 though through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Chromosome 9 is partnered with chromosome 22 in the translocation leading to the aberrant production of BCR-ABL fusion protein often found in leukemias.

CHROMOSOMAL LOCATION

Genetic locus: C9orf114 (human) mapping to 9q34.11; D2Wsu81e (mouse) mapping to 2 B.

SOURCE

C9orf114 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C9orf114 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-240163 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

C9orf114 (G-15) is recommended for detection of C9orf114 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).

C9orf114 (G-15) is also recommended for detection of C9orf114 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for C9orf114 siRNA (h): sc-92746, C9orf114 siRNA (m): sc-141946, C9orf114 shRNA Plasmid (h): sc-92746-SH, C9orf114 shRNA Plasmid (m): sc-141946-SH, C9orf114 shRNA (h) Lentiviral Particles: sc-92746-V and C9orf114 shRNA (m) Lentiviral Particles: sc-141946-V.

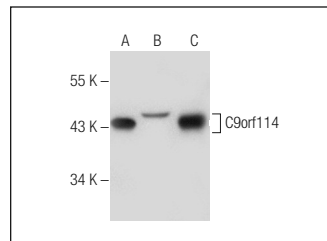
Molecular Weight of C9orf114: 42 kDa.

Positive Controls: IMR-32 cell lysate: sc-2409, U-87 MG cell lysate: sc-2411 or rat hippocampus tissue extract.

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



C9orf114 (G-15): sc-240163. Western blot analysis of C9orf114 expression in IMR-32 (A) and U-87 MG (B) whole cell lysates and rat hippocampus tissue extract (C).

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.



Try **C9orf114 (H-7): sc-393263**, our highly recommended monoclonal alternative to C9orf114 (G-15).