

FOXRED2 (P-14): sc-86459

BACKGROUND

FOXRED2 (FAD-dependent oxidoreductase domain containing 2) is a 684 amino acid protein that exists as multiple alternatively spliced isoforms. The gene encoding FOXRED2 maps to human chromosome 22q12.3, which houses over 500 genes and is the second smallest human chromosome. Mutations in several of the genes that map to chromosome 22 are involved in the development of Phelan-McDermid syndrome, neurofibromatosis type 2, autism and schizophrenia. Additionally, translocations between chromosomes 9 and 22 may lead to the formation of the Philadelphia chromosome and the subsequent production of the novel fusion protein Bcr-Abl, a potent cell proliferation activator found in several types of leukemias.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FOXRED2 (human) mapping to 22q12.3; Foxred2 (mouse) mapping to 15 E1.

SOURCE

FOXRED2 (P-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of FOXRED2 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, ready P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FOXRED2 (P-14) is recommended for detection of FOXRED2 of mouse, rat 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).

FOXRED2 (P-14) is also recommended for detection of FOXRED2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FOXRED2 siRNA (h): sc-75054, FOXRED2 siRNA (m): sc-145231, FOXRED2 shRNA Plasmid (h): sc-75054-SH, FOXRED2 shRNA Plasmid (m): sc-145231-SH, FOXRED2 shRNA (h) Lentiviral Particles: sc-75054-V and FOXRED2 shRNA (m) Lentiviral Particles: sc-145231-V.

Molecular Weight of FOXRED2: 78 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.



Try **FOXRED2 (B-10): sc-515260**, our highly recommended monoclonal alternative to FOXRED2 (P-14).