

Arylsulfatase I (D-14): sc-104824

BACKGROUND

Sulfatases hydrolyze sulfate esters from sulfated steroids, carbohydrates, proteoglycans and glycolipids. They are involved in hormone biosynthesis, modulation of cell signaling and degradation of macromolecules. Arylsulfatase I, also known as ARSI, is a 569 amino acid secretory protein that belongs to the sulfatase family of proteins. ARSI is expressed in embryonic tissues, retina and a few cancer cell lines. A candidate gene for lysosomal storage diseases, the gene encoding Arylsulfatase I maps to human chromosome 5, which contains 181 million base pairs and comprises nearly 6% of the human genome. Deletion of the p arm of chromosome 5 leads to cri du chat syndrome, while deletion of the q arm or of chromosome 5 altogether is common in therapy-related acute myelogenous leukemias and myelodysplastic syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ARSI (human) mapping to 5q32; Arsi (mouse) mapping to 18 E1.

RESEARCH USE

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

SOURCE

Arylsulfatase I (D-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Arylsulfatase I 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-104824 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Arylsulfatase I (D-14) is recommended for detection of Arylsulfatase I 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).

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

Suitable for use as control antibody for Arylsulfatase I siRNA (h): sc-91640, Arylsulfatase I siRNA (m): sc-141284, Arylsulfatase I shRNA Plasmid (h): sc-91640-SH, Arylsulfatase I shRNA Plasmid (m): sc-141284-SH, Arylsulfatase I shRNA (h) Lentiviral Particles: sc-91640-V and Arylsulfatase I shRNA (m) Lentiviral Particles: sc-141284-V.

Molecular Weight of Arylsulfatase I: 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.