SANTA CRUZ BIOTECHNOLOGY, INC.

Arylsulfatase F (D-12): sc-131425

BACKGROUND

Arylsulfatase F, also known as ARSF, is a 590 amino acid secretory protein that belongs to the sulfatase family of bone and cartilage matrix proteins. Arylsulfatase F uses calcium as a cofactor to catalyze reactions that are important in maintaining correct bone composition. The activity of Arylsulfatase F, unlike that of other family members, such as Arylsulfatase E, is not inhibited by warfarin. The gene encoding Arylsulfatase F maps to human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes. In conjunction with chromosome Y, chromosome X is responsible for sex determination. There are a number of conditions related to an abnormal number and combination of sex chromosomes, some of which include Turner's syndrome, color blindness, hemophilia and Duchenne muscular dystrophy.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ARSF (human) mapping to Xp22.33.

STORAGE

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

SOURCE

Arylsulfatase F (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Arylsulfatase F 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-131425 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Arylsulfatase F (D-12) is recommended for detection of Arylsulfatase F of 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); non cross-reactive with other Arylsulfatase family members.

Suitable for use as control antibody for Arylsulfatase F siRNA (h): sc-91189, Arylsulfatase F shRNA Plasmid (h): sc-91189-SH and Arylsulfatase F shRNA (h) Lentiviral Particles: sc-91189-V.

Molecular Weight of Arylsulfatase F: 66 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.

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.