AKR1CL1 (N-15): sc-249916



The Power to Question

BACKGROUND

AKR1CL1 (aldo-keto reductase family 1, member C-like 1) is a 129 amino acid protein that localizes to the cytoplasm and participates in oxidoreductase activities. Located on human chromosome 10p15.1, the AKR1CL1 gene is one of six known human AKR genes, which include AKR1CL2, DD1, DD2, DD3 and DD4, and is located between DD3 and DD4. A deletion in the 10.15 region of the short arm of chromosome 10, which includes AKR1CL1, is associated with congenital Rett-syndrome, a severe neurodegenerative disorder typified by acquired microcephaly, communication dysfunction, psychomotor regression, seizures and stereotypical hand movements.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AKR1CL1 (human) mapping to 10p15.1.

SOURCE

AKR1CL1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of AKR1CL1 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-249916 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AKR1CL1 (N-15) is recommended for detection of AKR1CL1 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 AKR1CL2.

Suitable for use as control antibody for AKR1CL1 siRNA (h): sc-90508, AKR1CL1 shRNA Plasmid (h): sc-90508-SH and AKR1CL1 shRNA (h) Lentiviral Particles: sc-90508-V.

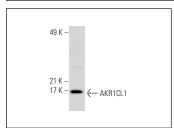
Molecular Weight of AKR1CL1: 15 kDa.

Positive Controls: Human heart extract: sc-363763.

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.

DATA



AKR1CL1 (N-15): sc-249916. Western blot analysis of AKR1CL1 expression in human heart tissue extract.

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.

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