



AKR1B7 (M-13): sc-27763

BACKGROUND

Aldo-keto-reductase 1B7 (AKR1B7) detoxifies isocaproaldehyde generated by a side chain cleavage reaction in cholesterol metabolism. The transcriptional regulators SF-1 and NF1 associate with the AKR1B7 promoter, while Sp and C/EBP β also effect induction in a cAMP dependent manner. The AKR1B7 gene increases in expression in the embryonic stages and decreases after birth, yet protein levels follow an inverse pattern to this, implying important translational controls.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Akrlb7 (mouse) mapping to 6 B1.

RESEARCH USE

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

SOURCE

AKR1B7 (M-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of AKR1B7 of mouse origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27763 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AKR1B7 (M-13) is recommended for detection of AKR1B7 of mouse and rat 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).

Suitable for use as control antibody for AKR1B7 siRNA (m): sc-140984, AKR1B7 shRNA Plasmid (m): sc-140984-SH and AKR1B7 shRNA (m) Lentiviral Particles: sc-140984-V.

Positive Controls: mouse vas deferens tissue.

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.