

SDR-O (E-14): sc-169269

BACKGROUND

SDR-O (orphan short-chain dehydrogenase/reductase), also known as SDR9C7 (short chain dehydrogenase/reductase family 9C, member 7) or RDHS, is a 313 amino acid cytoplasmic protein that is highly expressed in liver. While SDR-O shares homology with members of the SDR family, it does not possess retinoid or dehydrogenase activity. Instead, SDR-O has been hypothesized to either act as a regulatory factor, catalyze the metabolism of nuclear receptor ligands, or bind substrates to influence metabolism. The gene encoding SDR-O maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

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CHROMOSOMAL LOCATION

Genetic locus: SDR9C7 (human) mapping to 12q13.3; Sdr9c7 (mouse) mapping to 10 D3.

SOURCE

SDR-O (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SDR-O 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-169269 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SDR-O (E-14) is recommended for detection of SDR-O of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

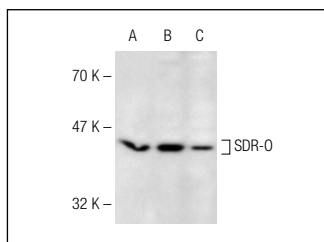
SDR-O (E-14) is also recommended for detection of SDR-O in additional species, including canine.

Suitable for use as control antibody for SDR-O siRNA (h): sc-95890, SDR-O siRNA (m): sc-153289, SDR-O shRNA Plasmid (h): sc-95890-SH, SDR-O shRNA Plasmid (m): sc-153289-SH, SDR-O shRNA (h) Lentiviral Particles: sc-95890-V and SDR-O shRNA (m) Lentiviral Particles: sc-153289-V.

Molecular Weight of SDR-O: 35 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, HeLa whole cell lysate: sc-2200 or Raji whole cell lysate.

DATA



SDR-O (E-14): sc-169269. Western blot analysis of SDR-O expression in Hep G2 (A), HeLa (B) and Raji (C) whole cell lysates.

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.