

# DHRS13 (G-13): sc-136644

## BACKGROUND

DHRS13 (dehydrogenase/reductase SDR family member 13), also known as UNQ419/PRO853, is a 377 amino acid secreted protein belonging to the short-chain dehydrogenases/reductases (SDR) family. DHRS13 is presumed to function as an oxidoreductase and is phosphorylated, potentially by ATM or ATR, upon DNA damage. DHRS13 exists as two isoforms produced by alternative splicing events. The gene encoding DHRS13 maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Neurofibromatosis, dysregulated Schwann cell growth, Alexander disease, Birt-Hogg-Dube syndrome and Canavan disease are associated with chromosome 17.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: DHRS13 (human) mapping to 17q11.2; DhRS13 (mouse) mapping to 11 B5.

## SOURCE

DHRS13 (G-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of DHRS13 of human origin.

## PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-136644 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

DHRS13 (G-13) is recommended for detection of DHRS13 isoforms 1 and 2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other DHRS family members.

DHRS13 (G-13) is also recommended for detection of DHRS13 isoforms 1 and 2 in additional species, including equine and bovine.

Suitable for use as control antibody for DHRS13 siRNA (h): sc-93828, DHRS13 siRNA (m): sc-143029, DHRS13 shRNA Plasmid (h): sc-93828-SH, DHRS13 shRNA Plasmid (m): sc-143029-SH, DHRS13 shRNA (h) Lentiviral Particles: sc-93828-V and DHRS13 shRNA (m) Lentiviral Particles: sc-143029-V.

Molecular Weight of DHRS13 isoforms 1/2: 41/36 kDa.

Positive Controls: Daudi cell lysate: sc-2415 or MOLT-4 cell lysate: sc-2233.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.