# DSCR 4 (P-20): sc-14282



The Power to Question

# **BACKGROUND**

An extra copy of the smallest human autosome chromosome 21 results in Down Syndrome. The Down Syndrome Critical Region (DSCR) maps specifically to chromosme 21q22.2 and includes several genes which are likely associated with the pathogenesis of Down Syndrome. The genes DSCR 4, DSCR 5 and DSCR 6 differ in tissue expression and size. The gene DSCR 4 encodes a large open reading frame of 118 amino acid residues with a unique sequence. Expression of DSCR 4 mRNA occurs in the placenta as well as in adult cardiac and skeletal muscle. There are several splice variants of DSCR 5 and the mRNA of DSCR 5 is expressed in fetal liver and adult testis. Alternative splicing in DSCR 6 leads to four transcripts labeled DSCR 6a, DSCR 6b, DSCR 6c, and DSCR 6d. The DSCR 6 gene is the most centromeric gene, and its mRNA is expressed in the brain and kidney. Other genes in the DSCR family include tetratricopeptide repeat domain 3 (TTC3) and DSCR3.

# **REFERENCES**

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# **SOURCE**

DSCR 4 (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DSCR 4 of human origin.

## **STORAGE**

Store at  $4^{\circ}$  C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

#### **PRODUCT**

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

Blocking peptide available for competition studies, sc-14282 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

# **APPLICATIONS**

DSCR 4 (P-20) is recommended for detection of DSCR 4 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).

Suitable for use as control antibody for DSCR 4 siRNA (h): sc-40496.

# **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.

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