

# DGS8 (N-19): sc-48473

## BACKGROUND

DGS8, also designated DiGeorge syndrome critical region 8 protein, plays a role in the etiology of the velocardiofacial/DiGeorge syndrome (VCFS/DGS). It is an ubiquitously expressed protein encoded by the gene DGCR8, which is deleted in DiGeorge syndrome. DiGeorge syndrome is characterized by structural and functional palate anomalies, conotruncal cardiac malformations, immunodeficiency, hypocalcemia and typical facial anomalies. In mouse, DGS8 is detected primarily in embryonic brain, vessels, thymus and palate.

## CHROMOSOMAL LOCATION

Genetic locus: DGCR8 (human) mapping to 22q11.21; Dgcr8 (mouse) mapping to 16 A3.

## SOURCE

DGS8 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of DGS8 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-48473 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-48473 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## 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.

## APPLICATIONS

DGS8 (N-19) is recommended for detection of DGS8 isoforms 1, 2 and 3 only 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).

DGS8 (N-19) is also recommended for detection of DGS8 isoforms 1, 2 and 3 only in additional species, including canine.

Suitable for use as control antibody for DGS8 siRNA (h): sc-60529, DGS8 siRNA (m): sc-60530, DGS8 shRNA Plasmid (h): sc-60529-SH, DGS8 shRNA Plasmid (m): sc-60530-SH, DGS8 shRNA (h) Lentiviral Particles: sc-60529-V and DGS8 shRNA (m) Lentiviral Particles: sc-60530-V.

DGS8 (N-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

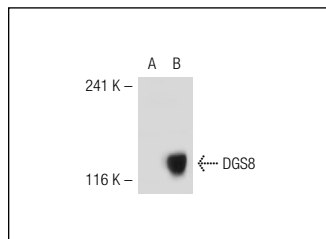
Molecular Weight of DGS8: 120 kDa.

Positive Controls: DGS8 (h): 293T Lysate: sc-117436, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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



DGS8 (N-19): sc-48473. Western blot analysis of DGS8 expression in non-transfected: sc-117752 (A) and human DGS8 transfected: sc-117436 (B) 293T whole cell lysates.

## SELECT PRODUCT CITATIONS

- Cheng, T.L., et al. 2009. Multitarget therapy of malignant cancers by the head-to-tail tandem array multiple shRNAs expression system. *Cancer Gene Ther.* 16: 516-531.
- Trabucchi, M., et al. 2009. The RNA-binding protein KSRP promotes the biogenesis of a subset of microRNAs. *Nature* 459: 1010-1014.
- Ho, J.J., et al. 2012. Functional importance of dicer protein in the adaptive cellular response to hypoxia. *J. Biol. Chem.* 287: 29003-29020.
- Bellemer, C., et al. 2012. Microprocessor dynamics and interactions at endogenous imprinted C19MC microRNA genes. *J. Cell Sci.* 125: 2709-2720.

## PROTOCOLS

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



Try **DGS8 (E-10): sc-377249** or **DGS8 (H-6): sc-271259**, our highly recommended monoclonal alternatives to DGS8 (N-19).