

# DGS8 (H-300): sc-134567

## BACKGROUND

DGS8, also designated DiGeorge syndrome critical region 8 protein, plays a role in the etiology of the velocardiofacial/DiGeorge syndrome (VCF/DGS). It is a 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.

## REFERENCES

- Shiohama, A., et al. 2003. Molecular cloning and expression analysis of a novel gene DGCR8 located in the DiGeorge syndrome chromosomal region. *Biochem. Biophys. Res. Commun.* 304: 184-190.
- Baldini, A. 2004. DiGeorge syndrome: an update. *Curr. Opin. Cardiol.* 19: 201-204.

## CHROMOSOMAL LOCATION

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

## SOURCE

DGS8 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at 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-134567 X, 200 µg/0.1 ml.

## APPLICATIONS

DGS8 (H-300) is recommended for detection of DGS8 isoforms 1, 2 and 3 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 (H-300) is also recommended for detection of DGS8 isoforms 1, 2 and 3 in additional species, including equine, canine, bovine and porcine.

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 (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

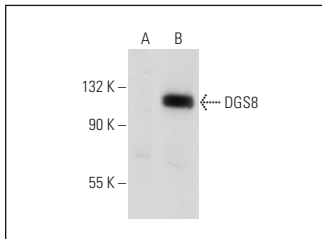
Molecular Weight of DGS8: 120 kDa.

Positive Controls: DGS8 (h3): 293T Lysate: sc-128462, HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

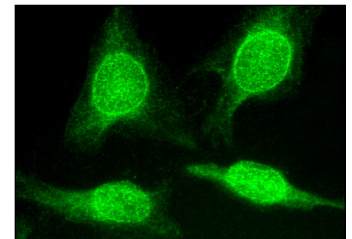
## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



DGS8 (H-300): sc-134567. Western blot analysis of DGS8 expression in non-transfected: sc-117752 (A) and human DGS8 transfected: sc-128462 (B) 293T whole cell lysates.



DGS8 (H-300): sc-134567. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear and faint cytoplasmic localization.

## SELECT PRODUCT CITATIONS

- Stachurska, A., et al. 2013. Cross-talk between microRNAs, nuclear factor E2-related factor 2, and heme oxygenase-1 in ochratoxin A-induced toxic effects in renal proximal tubular epithelial cells. *Mol. Nutr. Food Res.* 57: 504-515.

## 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.



Try **DGS8 (E-10): sc-377249** or **DGS8 (H-6): sc-271259**, our highly recommended monoclonal alternatives to DGS8 (H-300).