SANTA CRUZ BIOTECHNOLOGY, INC.

GCM2 (S-19): sc-79496

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Glial cells missing homolog 2 (GCM2), also known as Chorion-specific transcription factor GCMb, is a 506 amino acid nuclear protein. GCM2 is a transcription factor that acts as an essential regulator of parathyroid development. GCM2 is also thought to mediate the effect of calcium on parathyroid hormone expression and secretion in parathyroid cells. GCM2 contains one N-terminal GCM domain, which has DNA binding activity. Mutations of the gene that encodes GCM2 are associated with hypoparathyroidism, an autosomal recessive condition characterized by hypocalcemia and hyperphosphatemia.

CHROMOSOMAL LOCATION

Genetic locus: GCM2 (human) mapping to 6p24.2; Gcm2 (mouse) mapping to 13 A3.3.

SOURCE

GCM2 (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of GCM2 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-79496 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-79496 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.

APPLICATIONS

GCM2 (S-19) is recommended for detection of GCM2 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).

GCM2 (S-19) is also recommended for detection of GCM2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for GCM2 siRNA (h): sc-75119, GCM2 siRNA (m): sc-75120, GCM2 shRNA Plasmid (h): sc-75119-SH, GCM2 shRNA Plasmid (m): sc-75120-SH, GCM2 shRNA (h) Lentiviral Particles: sc-75119-V and GCM2 shRNA (m) Lentiviral Particles: sc-75120-V.

GCM2 (S-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

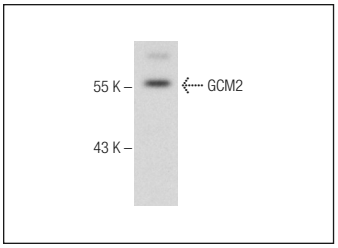
Molecular Weight of GCM2: 65-70 kDa.

Positive Controls: F9 cell lysate: sc-2245 or NTERA-2 cl.D1 whole cell lysate: sc-364181.

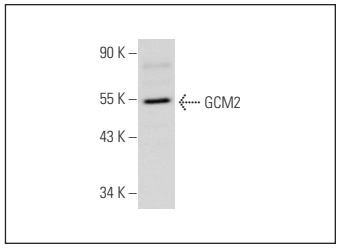
RECOMMENDED SECONDARY REAGENTS

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



GCM2 (S-19): sc-79496. Western blot analysis of GCM2 expression in F9 whole cell lysate.



GCM2 (S-19): sc-79496. Western blot analysis of GCM2 expression in NTERA-2 cl.D1 whole cell lysate.

SELECT PRODUCT CITATIONS

1. Ritter, C.S., et al. 2012. Differential gene expression by oxyphil and chief cells of human parathyroid glands. J. Clin. Endocrinol. Metab. 97: E1499-E1505.

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.