GLP1 (E-14): sc-167995



The Power to Question

BACKGROUND

Members of the GATA family of transcription factors bind the consensus DNA sequence 5'-WGATAR-3', and share a conserved zinc finger DNA-binding domain. GLP1 (GATA-type zinc finger protein 1), also known as ZGLP1, is a 271 amino acid nuclear protein that represses GATA transcription factor function. Containing one GATA-type zinc finger, GLP1 is essential for germ cell development and is expressed in Leydig cells of the testis and granulosa cells of the ovaries, where it functions as a nuclear repressor. The gene encoding GLP1 maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG families and Fc receptors (FcRs).

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Zglp1 (mouse) mapping to 9 A3.

SOURCE

GLP1 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of GLP1 of mouse origin.

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.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-167995 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-167995 X, 200 $\mu g/0.1$ ml.

APPLICATIONS

GLP1 (E-14) is recommended for detection of GLP1 of mouse and rat 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 GLP1 siRNA (m): sc-145428, GLP1 shRNA Plasmid (m): sc-145428-SH and GLP1 shRNA (m) Lentiviral Particles: sc-145428-V.

GLP1 (E-14) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of GLP1: 30 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat lgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat lgG-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 lgG-FITC: sc-2024 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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