BACKGROUND

Nanos3, also known as Nos3 or NANOS1, is a 173 amino acid protein that contains one nanos-type zinc finger, a structure composed of 2 C2H domains that bind zinc and are required for Nanos3 function. Via its zinc finger, Nanos3 is involved in the maintenance of proximal germ cells, specifically by controlling germ cell proliferation and regulating the translation of specific mRNAs. The gene encoding Nanos3 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 leucocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family and Fc receptors (Fc Rs).

REFERENCES


PRODUCT

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

Blocking peptide available for competition studies, sc-69191 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Nanos3 (A-15) is recommended for detection of Nanos3 of mouse, rat and 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).

Nanos3 (A-15) is also recommended for detection of Nanos3 in additional species, including bovine and porcine.


CHROMOSOMAL LOCATION

Genetic locus: NANOS3 (human) mapping to 19p13.13; Nanos3 (mouse) mapping to 8 C3.

SOURCE

Nanos3 (A-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Nanos3 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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