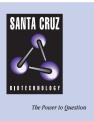
## SANTA CRUZ BIOTECHNOLOGY, INC.

# LOC728157 (N-11): sc-83904



## BACKGROUND

LOC728157 is a 102 amino acid protein that is encoded by a gene which maps to human chromosome Y. Chromosome Y contains approximately 58 million base pairs and houses over 80 genes, many of which are essential for proper sexual development. The Y chromosome is the human sex determining chromosome which is necessary for male development and, while deletions or defects in chromosome Y-encoded genes are not lethal, they may greatly impair masculine development and function. Carrying an additional copy of the Y chromosome, as seen in males with XYY Syndrome, does not lead to an obvious phenotype and most XYY males are unaware of their additional Y chromosome. The LOC728157 gene product has been provisionally designated LOC728157 pending further characterization.

#### REFERENCES

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- Krausz, C. and Giachini, C. 2007. Genetic risk factors in male infertility. Arch. Androl. 53: 125-133.
- 7. Waters, P.D., Wallis, M.C. and Marshall Graves, J.A. 2007. Mammalian sex—Origin and evolution of the Y chromosome and SRY. Semin. Cell Dev. Biol. 18: 389-400.
- 8. Wilhelm, D., Palmer, S. and Koopman, P. 2007. Sex determination and gonadal development in mammals. Physiol. Rev. 87: 1-28.

## CHROMOSOMAL LOCATION

Genetic locus: LOC728157 (human) mapping to Yq11.1.

#### SOURCE

L0C728157 (N-11) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of L0C728157 of human origin.

#### **STORAGE**

Store at 4° C, \*\*D0 NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PRODUCT

Each vial contains 100  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83904 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## **APPLICATIONS**

L0C728157 (N-11) is recommended for detection of L0C728157 of 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).

Suitable for use as control antibody for LOC728157 siRNA (h): sc-91557, LOC728157 shRNA Plasmid (h): sc-91557-SH and LOC728157 shRNA (h) Lentiviral Particles: sc-91557-V.

Molecular Weight of LOC728157: 13 kDa.

## **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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: 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<sup>™</sup> Mounting Medium: sc-24941.

## **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.