## SANTA CRUZ BIOTECHNOLOGY, INC.

# C20orf108 (C-14): sc-85318



BACKGROUND

C20orf108 is a 192 amino acid multi-pass membrane protein that contains one DUF1279 domain. C20orf108 is encoded by a gene located on human chromosome 20q13.2. Representing about 2% of human DNA, chromosome 20 consists of approximately 63 million bases and 600 genes. Chromosome 20 contains a region with numerous genes expressed in the epididymis, which are thought to be important for seminal production. The PRNP gene encoding the prion protein associated with spongiform encephalopathies, like Creutzfeldt-Jakob disease, is found on chromosome 20. Amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20. Piepsy syndrome and Alagille syndrome are also associated with chromosome 20. The C20orf108 gene product has been provisionally designated C20orf108 pending further characterization.

## REFERENCES

- 1. Prusiner, S.B. 1998. The prion diseases. Brain Pathol. 8: 499-513.
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- Masullo, C. and Macchi, G. 2001. Does PRNP gene control the clinical and pathological phenotype of human spongiform transmissible encephalopathies? Clin. Neuropathol. 20: 19-25.
- Joó, J.G., et al. 2006. Trisomy 20 mosaicism and nonmosaic trisomy 20: a report of 2 cases. J. Reprod. Med. 51: 209-212.
- Ville, D., et al. 2006. Early pattern of epilepsy in the ring chromosome 20 syndrome. Epilepsia 47: 543-549.
- Elghezal, H., et al. 2007. Ring chromosome 20 syndrome without deletions of the subtelomeric and CHRNA4-KCNQ2 genes loci. Eur. J. Med. Genet. 50: 441-445.
- 7. Kazantsev, A.G. 2007. Cellular pathways leading to neuronal dysfunction and degeneration. Drug News Perspect. 20: 501-509.
- 8. Lundwall, A. 2007. A locus on chromosome 20 encompassing genes that are highly expressed in the epididymis. Asian J. Androl. 9: 540-544.

## CHROMOSOMAL LOCATION

Genetic locus: FAM210B (human) mapping to 20q13.2; Fam210b (mouse) mapping to 2 H3.

#### SOURCE

C20orf108 (C-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of C20orf108 of human origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-85318 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### APPLICATIONS

C20orf108 (C-14) is recommended for detection of C20orf108 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

C20orf108 (C-14) is also recommended for detection of C20orf108 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for C20orf108 siRNA (h): sc-72695, C20orf108 siRNA (m): sc-141852, C20orf108 shRNA Plasmid (h): sc-72695-SH, C20orf108 shRNA Plasmid (m): sc-141852-SH, C20orf108 shRNA (h) Lentiviral Particles: sc-72695-V and C20orf108 shRNA (m) Lentiviral Particles: sc-141852-V.

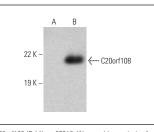
Molecular Weight of C20orf108: 20 kDa.

Positive Controls: C20orf108 (h): 293T Lysate: sc-113154.

#### **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) 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<sup>™</sup> Mounting Medium: sc-24941.

## DATA



C20orf108 (C-14): sc-85318. Western blot analysis of C20orf108 expression in non-transfected: sc-117752 (A) and human C20orf108 transfected: sc-113154 (B) 293T whole cell Ivsates.

#### **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.