SANTA CRUZ BIOTECHNOLOGY, INC.

VSTM2L (A-4): sc-376538

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

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 important for seminal production, and some genes viewed as potential targets for male contraception. 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 epilepsy syndrome and Alagille syndrome are also associated with chromosome 20. The VSTM2L gene product has been provisionally designated VSTM2L pending further characterization.

REFERENCES

1. Prusiner, S.B. 1998. The prion diseases. Brain Pathol. 8: 499-513.
2. Collins, S., et al. 2001. Gerstmann-Sträussler-Scheinker syndrome, fatal familial insomnia and kuru: a review of these less common human transmissible spongiform encephalopathies. J. Clin. Neurosci. 8: 387-397.
3. Masullo, C., et al. 2001. Does PRNP gene control the clinical and pathological phenotype of human spongiform transmissible encephalopathies? Clin. Neuropathol. 20: 19-25.
4. Joó, J.G., et al. 2006. Trisomy 20 mosaicism and nonmosaic trisomy 20: a report of 2 cases. J. Reprod. Med. 51: 209-212.

CHROMOSOMAL LOCATION

Genetic locus: VSTM2L (human) mapping to 20q11.23; Vstm2l (mouse) mapping to 2 H1.

SOURCE

VSTM2L (A-4) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 15-47 near the N-terminus of VSTM2L of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 lambda light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

VSTM2L (A-4) is available conjugated to agarose (sc-376538 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-376538 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376538 PE), fluorescein (sc-376538 FITC), Alexa Fluor® 488 (sc-376538 AF488), Alexa Fluor® 546 (sc-376538 AF546), Alexa Fluor® 594 (sc-376538 AF594) or Alexa Fluor® 647 (sc-376538 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376538 AF680) or Alexa Fluor® 790 (sc-376538 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-376538 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

RESEARCH USE

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

APPLICATIONS

VSTM2L (A-4) is recommended for detection of VSTM2L of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for VSTM2L siRNA (h): sc-76909, VSTM2L siRNA (m): sc-155234, VSTM2L shRNA Plasmid (h): sc-76909-SH, VSTM2L shRNA Plasmid (m): sc-155234-SH, VSTM2L shRNA (h) Lentiviral Particles: sc-76909-V and VSTM2L shRNA (m) Lentiviral Particles: sc-155234-V.

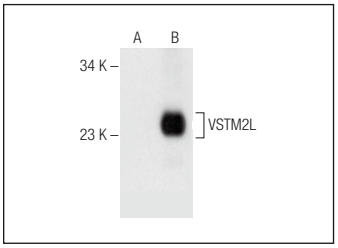
Molecular Weight of VSTM2L: 22 kDa.

Positive Controls: VSTM2L (h): 293T Lysate: sc-115103 or IMR-32 cell lysate: sc-2409.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGλ BP-HRP: sc-516132 or m-IgGλ BP-HRP (Cruz Marker): sc-516132-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGλ BP-FITC: sc-516185 or m-IgGλ BP-PE: sc-516186 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



VSTM2L (A-4): sc-376538. Western blot analysis of VSTM2L expression in non-transfected: sc-117752 (**A**) and human VSTM2L transfected: sc-115103 (**B**) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Ye, S., et al. 2024. MIF-modulated spinal proteins associated with persistent bladder pain: a proteomics study. Int. J. Mol. Sci. 25: 4484.

STORAGE

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