SANTA CRUZ BIOTECHNOLOGY, INC.

PABPC1L (H-1): sc-515476

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 that are thought to be important for seminal production, while some are viewed as potential targets for male contraception. The PRNP gene encoding the prion protein associated with spongiform encephalopathies 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.

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. and Macchi, G. 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.
5. Ville, D., et al. 2006. Early pattern of epilepsy in the ring chromosome 20 syndrome. Epilepsia 47: 543-549.
6. 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.

CHROMOSOMAL LOCATION

Genetic locus: Pabpc1l (mouse) mapping to 2 H3.

SOURCE

PABPC1L (H-1) is a mouse monoclonal antibody raised against amino acids 485-529 mapping within an internal region of PABPC1L of mouse origin.

PRODUCT

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

PABPC1L (H-1) is available conjugated to agarose (sc-515476 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515476 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515476 PE), fluorescein (sc-515476 FITC), Alexa Fluor® 488 (sc-515476 AF488), Alexa Fluor® 546 (sc-515476 AF546), Alexa Fluor® 594 (sc-515476 AF594) or Alexa Fluor® 647 (sc-515476 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515476 AF680) or Alexa Fluor® 790 (sc-515476 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

PABPC1L (H-1) is recommended for detection of PABPC1L of mouse 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).

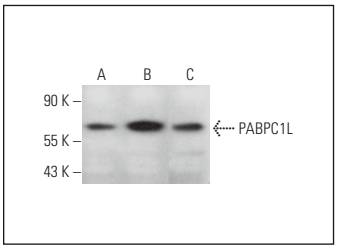
Suitable for use as control antibody for PABPC1L siRNA (m): sc-108577, PABPC1L shRNA Plasmid (m): sc-108577-SH and PABPC1L shRNA (m) Lentiviral Particles: sc-108577-V.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, RAW 264.7 whole cell lysate: sc-2211 or M1 whole cell lysate: sc-364782.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-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-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



PABPC1L (H-1): sc-515476. Western blot analysis of PABPC1L expression in NIH/3T3 (**A**), RAW 264.7 (**B**) and M1 (**C**) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Cheng, S., et al. 2022. Mammalian oocytes store mRNAs in a mitochondria-associated membraneless compartment. Science 378: eabq4835.

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.