HN1 (3G6): sc-517032



The Power to Question

BACKGROUND

Hematological and neurological expressed 1 protein (HN1), also known as androgen-regulated protein 2 (ARM2), is a 154 amino acid member of the HN1 family. HN1 has been proposed to play a role in embryo development, specifically hemopoietic cell and neurological development. Localized to the nucleus, HN1 is expressed in many fetal and adult tissues, with highest levels of expression in brain, colon, prostate, testis, thymus, skeletal muscle, peripheral blood cells and placenta. HN1 has been identified to have processed pseudogenes in the mouse, rat and human genomes, suggesting that HN1 and its pseudogenes represent a novel gene family. Three isoforms of HN1 exist as a result of alternative splicing events.

REFERENCES

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- 3. Kalikin, L.M., et al. 1999. An integrated physical and gene map of human distal chromosome 17q24-proximal 17q25 encompassing multiple disease loci. Genomics 57: 36-42.
- Ko, M.S., et al. 2000. Large-scale cDNA analysis reveals phased gene exp ression patterns during preimplantation mouse development. Development 127: 1737-1749.
- Harrison, P.M. et al. 2002. Studying genomes through the aeons: protein families, pseudogenes and proteome evolution. J. Mol. Biol. 318: 1155-1174.
- Zhou, G., et al. 2004. Cloning, expression and subcellular localization of HN1 and HN1L genes, as well as characterization of their orthologs, defining an evolutionarily conserved gene family. Gene 331: 115-123.
- Zougman, A. et al. 2006. Beyond linker histones and high mobility group proteins: global profiling of perchloric acid soluble proteins. J. Proteome Res. 5: 925-934.

CHROMOSOMAL LOCATION

Genetic locus: HN1 (human) mapping to 17q25.1.

SOURCE

HN1 (3G6) is a mouse monoclonal antibody raised against amino acids 1-154 representing full length HN1 of human origin.

PRODUCT

Each vial contains 100 μg lgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

HN1 (3G6) is recommended for detection of HN1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000)

Suitable for use as control antibody for HN1 siRNA (h): sc-93940, HN1 shRNA Plasmid (h): sc-93940-SH and HN1 shRNA (h) Lentiviral Particles: sc-93940-V.

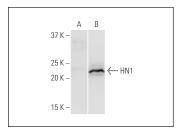
Molecular Weight of HN1: 17 kDa.

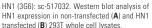
Positive Controls: HN1 transfected 293T whole cell lysate.

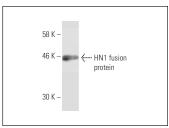
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker 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).

DATA







HN1 (3G6): sc-517032. Western blot analysis of human recombinant HN1 fusion protein.

RESEARCH USE

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

PROTOCOLS

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

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