R3HDML (S-20): sc-85858



The Power to Question

BACKGROUND

A conserved sequence motif, the R3H domain has been identified in over 100 proteins and is suggested to be involved in polynucleotide-binding, including DNA, RNA and single-stranded DNA. R3HDML (R3H domain containing-like) is a 253 amino acid cysteine-rich secretory protein belonging to the CRISP family. Considered a putative serine protease inhibitor, R3HDML is encoded by a gene located on human chromosome 20, which contains nearly 63 million bases and encodes over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome. Additionally, chromosome 20 contains a region with numerous genes that are thought to be important for seminal production and may be potential targets for male contraception.

REFERENCES

- Liepinsh, E., et al. 2003. Solution structure of the R3H domain from human Smubp-2. J. Mol. Biol. 326: 217-223.
- 2. Ville, D., et al. 2006. Early pattern of epilepsy in the ring chromosome 20 syndrome. Epilepsia 47: 543-549.
- 3. Joó, J.G., et al. 2006. Trisomy 20 mosaicism and nonmosaic trisomy 20: a report of 2 cases. J. Reprod. Med. 51: 209-212.
- 4. Lundwall, A. 2007. A locus on chromosome 20 encompassing genes that are highly expressed in the epididymis. Asian J. Androl. 9: 540-544.
- O'Rand, M.G., et al. 2007. Eppin: an epididymal protease inhibitor and a target for male contraception. Soc. Reprod. Fertil. Suppl. 63: 445-453.
- 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.

CHROMOSOMAL LOCATION

Genetic locus: R3HDML (human) mapping to 20q13.12.

SOURCE

R3HDML (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of R3HDML of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85858 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

R3HDML (S-20) is recommended for detection of R3HDML 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).

R3HDML (S-20) is also recommended for detection of R3HDML in additional species, including equine and canine.

Suitable for use as control antibody for R3HDML siRNA (h): sc-76310, R3HDML shRNA Plasmid (h): sc-76310-SH and R3HDML shRNA (h) Lentiviral Particles: sc-76310-V.

Molecular Weight of R3HDML: 29 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

PROTOCOLS

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

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