

HMCES (N-14): sc-99300

BACKGROUND

HMCES (5-hydroxymethylcytosine (hmC) binding, ES cell-specific), also known as DC12, SRAPD1 or C3orf37, is a 354 amino acid protein belonging to the SOS response-associated peptidase family encoded by a gene that maps to human chromosome 3q21.3. Chromosome 3 is made up of approximately 214 million bases encoding over 1,100 genes. Notably, there is a chemokine receptor gene cluster and a variety of human cancer related loci on chromosome 3. Particular regions of the chromosome 3 short arm are deleted in many types of cancer cells. Key tumor suppressing genes on chromosome 3 encode apoptosis mediator RASSF1, cell migration regulator HYAL1 and angiogenesis suppressor SEMA3B. Marfan Syndrome, porphyria, von Hippel-Lindau syndrome, osteogenesis imperfecta and Charcot-Marie-Tooth disease are a few of the numerous genetic diseases associated with chromosome 3.

REFERENCES

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- Darai, E., et al. 2005. Evolutionarily plastic regions at human 3p21.3 coincide with tumor breakpoints identified by the "elimination test". *Genomics* 86: 1-12.
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- Nareyck, G., et al. 2006. Establishment and characterization of two uveal melanoma cell lines derived from tumors with loss of one chromosome 3. *Exp. Eye Res.* 83: 858-864.

CHROMOSOMAL LOCATION

Genetic locus: HMCES (human) mapping to 3q21.3; Hmces (mouse) mapping to 6 D1.

SOURCE

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

STORAGE

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

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99300 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HMCES (N-14) is recommended for detection of HMCES of mouse, rat and 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)], 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).

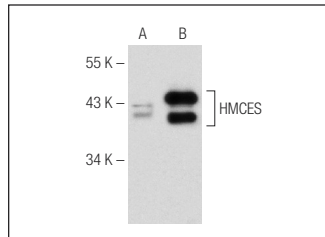
HMCES (N-14) is also recommended for detection of HMCES in additional species, including equine, canine and bovine.

Suitable for use as control antibody for HMCES siRNA (h): sc-78041, HMCES siRNA (m): sc-140491, HMCES shRNA Plasmid (h): sc-78041-SH, HMCES shRNA Plasmid (m): sc-140491-SH, HMCES shRNA (h) Lentiviral Particles: sc-78041-V and HMCES shRNA (m) Lentiviral Particles: sc-140491-V.

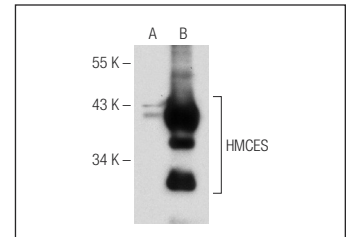
Molecular Weight of HMCES: 41 kDa.

Positive Controls: HMCES (h): 293T Lysate: sc-111388.

DATA



HMCES (N-14): sc-99300. Western blot analysis of HMCES expression in non-transfected: sc-117752 (A) and human HMCES transfected: sc-175614 (B) 293T whole cell lysates.



HMCES (N-14): sc-99300. Western blot analysis of HMCES expression in non-transfected: sc-117752 (A) and human HMCES transfected: sc-111388 (B) 293T whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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

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Satisfaction
Guaranteed

Try **HMCES (B-2): sc-514238**, our highly recommended monoclonal alternative to HMCES (N-14).