C19orf53 (H-1): sc-515133



The Power to Question

BACKGROUND

C19orf53 (chromosome 19 open reading frame 53) is a 99 amino acid protein that is encoded by a gene located on human chromosome 19. Chromosome 19 consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Chromosome 19 includes a diversity of interesting genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte lg-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc α receptors. Key genes for eye color and hair color also map to chromosome 19. Peutz-Jeghers syndrome, spinocerebellar ataxia type 6, the stroke disorder CADASIL, hypercholesterolemia and Insulindependent diabetes have been linked to chromosome 19. Translocations with chromosome 19 and chromosome 14 can be seen in some lymphoproliferative disorders and typically involve the proto-oncogene Bcl3.

REFERENCES

- 1. Zimmermann, W., et al. 1988. Chromosomal localization of the carcinoembryonic antigen gene family and differential expression in various tumors. Cancer Res. 48: 2550-2554.
- LaPoint, S.F., et al. 2000. Cerebral autosomal dominant arteriopathy with subcortical infarcts and leukoencephalopathy (CADASIL). Adv. Anat. Pathol. 7: 307-321.
- 3. Trettel, F., et al. 2000. A fine physical map of the CACNA1A gene region on 19p13.1-p13.2 chromosome. Gene 241: 45-50.

CHROMOSOMAL LOCATION

Genetic locus: C19orf53 (human) mapping to 19p13.2; D8Ertd738e (mouse) mapping to 8 C3.

SOURCE

C19orf53 (H-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1-20 at the N-terminus of C19orf53 of human origin.

PRODUCT

Each vial contains 200 $\mu g \; lg G_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

C19orf53 (H-1) is available conjugated to agarose (sc-515133 AC), 500 μ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515133 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515133 PE), fluorescein (sc-515133 FITC), Alexa Fluor* 488 (sc-515133 AF488), Alexa Fluor* 546 (sc-515133 AF546), Alexa Fluor* 594 (sc-515133 AF594) or Alexa Fluor* 647 (sc-515133 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor* 680 (sc-515133 AF680) or Alexa Fluor* 790 (sc-515133 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-515133 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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APPLICATIONS

C19orf53 (H-1) is recommended for detection of C19orf53 of human origin, D8Ertd738e of mouse origin and LOC288913 of rat 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 C19orf53 siRNA (h): sc-97415, D8Ertd738e siRNA (m): sc-142855, C19orf53 shRNA Plasmid (h): sc-97415-SH, D8Ertd738e shRNA Plasmid (m): sc-142855-SH, C19orf53 shRNA (h) Lentiviral Particles: sc-97415-V and D8Ertd738e shRNA (m) Lentiviral Particles: sc-142855-V.

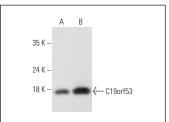
Molecular Weight of C19orf53: 11 kDa.

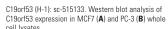
Positive Controls: MCF7 whole cell lysate: sc-2206 or PC-3 cell lysate: sc-2220.

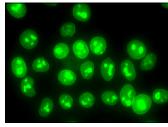
RECOMMENDED SUPPORT REAGENTS

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 MarkerTM 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-lgG κ BP-FITC: sc-516140 or m-lgG κ 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







C19orf53 (H-1): sc-515133. Immunofluorescence staining of formalin-fixed HeLa cells showing nucleolar and nuclear localization.

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.

PROTOCOLS

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