

C19orf25 (B-7): sc-515388

BACKGROUND

Consisting of around 63 million bases with over 1,400 genes, chromosome 19 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 Ig-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 Insulin-dependent 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. The C19orf25 gene product has been provisionally designated C19orf25 pending further characterization.

REFERENCES

- 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.
- 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: C19orf25 (human) mapping to 19p13.3; 2310011J03Rik (mouse) mapping to 10 C1.

SOURCE

C19orf25 (B-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 25-41 within an internal region of C19orf25 of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

C19orf25 (B-7) is available conjugated to agarose (sc-515388 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515388 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515388 PE), fluorescein (sc-515388 FITC), Alexa Fluor[®] 488 (sc-515388 AF488), Alexa Fluor[®] 546 (sc-515388 AF546), Alexa Fluor[®] 594 (sc-515388 AF594) or Alexa Fluor[®] 647 (sc-515388 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-515388 AF680) or Alexa Fluor[®] 790 (sc-515388 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-515388 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

C19orf25 (B-7) is recommended for detection of C19orf25 of human origin, 2310011J03Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 C19orf25 siRNA (h): sc-97133, 2310011J03Rik siRNA (m): sc-108664, C19orf25 shRNA Plasmid (h): sc-97133-SH, 2310011J03Rik shRNA Plasmid (m): sc-108664-SH, C19orf25 shRNA (h) Lentiviral Particles: sc-97133-V and 2310011J03Rik shRNA (m) Lentiviral Particles: sc-108664-V.

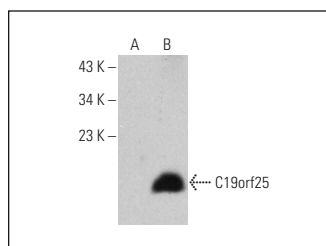
Molecular Weight of C19orf25: 13/17 kDa.

Positive Controls: C19orf25 (h): 293T Lysate: sc-113481.

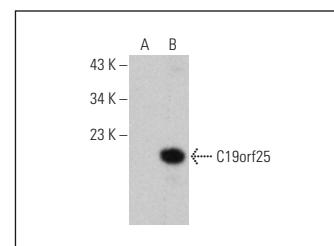
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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-IgG κ BP-FITC: sc-516140 or m-IgG 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



C19orf25 (B-7): sc-515388. Western blot analysis of C19orf25 expression in non-transfected: sc-117752 (A) and human C19orf25 transfected: sc-113481 (B) whole cell lysates.



C19orf25 (B-7): sc-515388. Western blot analysis of C19orf25 expression in non-transfected: sc-117752 (A) and human C19orf25 transfected: sc-371080 (B) 293T whole cell lysates.

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.