

# C19orf25 (D-13): sc-160982

## 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 $\alpha$  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 Bcl-3. 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.
- Buchet-Poyau, K., et al. 2002. Search for the second Peutz-Jeghers syndrome locus: exclusion of the STK13, PRKCG, KLK10, and PSCD2 genes on chromosome 19 and the STK11IP gene on chromosome 2. *Cytogenet. Genome Res.* 97: 171-178.
- Moodie, S.J., et al. 2002. Analysis of candidate genes on chromosome 19 in coeliac disease: an association study of the KIR and LILR gene clusters. *Eur. J. Immunogenet.* 29: 287-291.
- Grimwood, J., et al. 2004. The DNA sequence and biology of human chromosome 19. *Nature* 428: 529-535.
- Parham, P. 2005. Immunogenetics of killer cell immunoglobulin-like receptors. *Mol. Immunol.* 42: 459-462.
- Brocke-Heidrich, K., et al. 2006. Bcl-3 is induced by IL-6 via Stat3 binding to intronic enhancer HS4 and represses its own transcription. *Oncogene* 25: 7297-7304.
- Vikelis, M., et al. 2007. A novel CADASIL-causing mutation in a stroke patient. *Swiss Med. Wkly.* 137: 323-325.

## CHROMOSOMAL LOCATION

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

## SOURCE

C19orf25 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of C19orf25 of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-160982 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

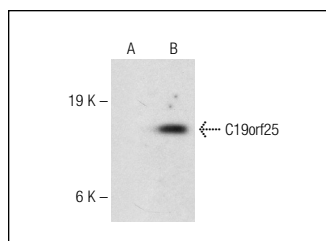
C19orf25 (D-13) is recommended for detection of C19orf25 of human origin, 2310011J03Rik of mouse origin and the corresponding rat homolog by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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); non cross-reactive with other C19orf family members.

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.

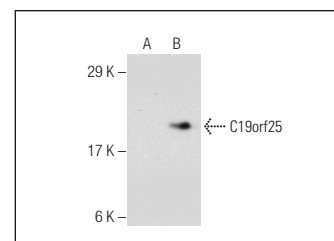
Molecular Weight of C19orf25: 13/17 kDa.

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

## DATA



C19orf25 (D-13): sc-160982. Western blot analysis of C19orf25 expression in non-transfected: sc-117752 (A) and human C19orf25 transfected: sc-113481 (B) 293T whole cell lysates.



C19orf25 (D-13): sc-160982. 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.



Try **C19orf25 (B-7): sc-515388**, our highly recommended monoclonal alternative to C19orf25 (D-13).