

FAM148C (F-10): sc-515089

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 in-volve the proto-oncogene Bcl3. The FAM148C gene product has been provisionally designated FAM148C 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.

CHROMOSOMAL LOCATION

Genetic locus: C2CD4C (human) mapping to 19p13.3; C2cd4c (mouse) mapping to 10 C1.

SOURCE

FAM148C (F-10) is a mouse monoclonal antibody raised against amino acids 55-154 mapping near the N-terminus of FAM148C 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.

PROTOCOLS

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

PRODUCT

Each vial contains 200 μ g IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FAM148C (F-10) is available conjugated to agarose (sc-515089 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515089 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515089 PE), fluorescein (sc-515089 FITC), Alexa Fluor® 488 (sc-515089 AF488), Alexa Fluor® 546 (sc-515089 AF546), Alexa Fluor® 594 (sc-515089 AF594) or Alexa Fluor® 647 (sc-515089 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515089 AF680) or Alexa Fluor® 790 (sc-515089 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

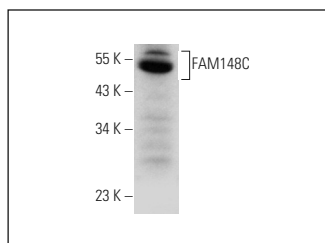
FAM148C (F-10) is recommended for detection of FAM148C of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution 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 FAM148C siRNA (h): sc-97732, FAM148C siRNA (m): sc-145030, FAM148C shRNA Plasmid (h): sc-97732-SH, FAM148C shRNA Plasmid (m): sc-145030-SH, FAM148C shRNA (h) Lentiviral Particles: sc-97732-V and FAM148C shRNA (m) Lentiviral Particles: sc-145030-V.

Molecular Weight of FAM148C: 45 kDa.

Positive Controls: A549 cell lysate: sc-2413.

DATA



FAM148C (F-10): sc-515089. Western blot analysis of FAM148C expression in A549 whole cell lysate.

RESEARCH USE

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