

FCHO1 (G-7): sc-365043



The Power to Question

BACKGROUND

FCHO1 (FCH domain only 1) is an 889 amino acid protein that contains one FCH domain and exists as multiple alternatively spliced isoforms. The gene encoding FCHO1 maps to human chromosome 19, which consists of over 63 million bases, houses approximately 1,400 genes and is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc receptors (FcRs). Key genes for eye color and hair color also map to chromosome 19.

REFERENCES

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- 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: FCHO1 (human) mapping to 19p13.11.

SOURCE

FCHO1 (G-7) is a mouse monoclonal antibody raised against amino acids 733-855 mapping near the C-terminus of FCHO1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FCHO1 (G-7) is available conjugated to agarose (sc-365043 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-365043 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-365043 PE), fluorescein (sc-365043 FITC), Alexa Fluor® 488 (sc-365043 AF488), Alexa Fluor® 546 (sc-365043 AF546), Alexa Fluor® 594 (sc-365043 AF594) or Alexa Fluor® 647 (sc-365043 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-365043 AF680) or Alexa Fluor® 790 (sc-365043 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

FCHO1 (G-7) is recommended for detection of FCHO1 of human 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 FCHO1 siRNA (h): sc-97726, FCHO1 shRNA Plasmid (h): sc-97726-SH and FCHO1 shRNA (h) Lentiviral Particles: sc-97726-V.

Molecular Weight (predicted) of FCHO1: 97 kDa.

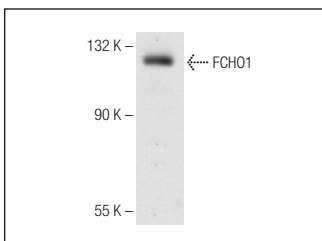
Molecular Weight (observed) of FCHO1: 121 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

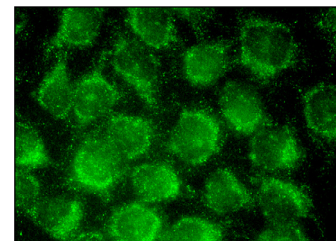
RECOMMENDED SUPPORT REAGENTS

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



FCHO1 (G-7): sc-365043. Western blot analysis of FCHO1 expression in K-562 whole cell lysate.



FCHO1 (G-7): sc-365043. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic 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.