FAHD2A (H-11): sc-515367



The Power to Question

BACKGROUND

FAHD2A (fumarylacetoacetate hydrolase domain containing 2A), also known as CGI-105, is a 314 amino acid protein that likely possesses hydrolase activity and belongs to the FAH family. Calcium and magnesium are presumed to be cofactors for FAHD2A. FAHD2A is encoded by a gene located on human chromosome 2, which consists of 237 million bases, encodes over 1,400 genes and makes up approximately 8% of the human genome. A number of genetic diseases are linked to genes on chromosome 2. Harlequin icthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterole-mia is associated with ABCG5 and ABCG8. An extremely rare recessive genetic disorder, Alström syndrome is due to mutations in the ALMS1 gene. Interestingly, chromosome 2 contains what appears to be a vestigial second centromere and vestigial telomeres which gives credence to the hypothesis that human chromosome 2 is the result of an ancient fusion of two ancestral chromosomes seen in modern form today in apes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAHD2A (human) mapping to 2q11.1; Fahd2a (mouse) mapping to 2 F1.

SOURCE

FAHD2A (H-11) is a mouse monoclonal antibody raised against amino acids 160-279 mapping within an internal region of FAHD2A of human origin.

PRODUCT

Each vial contains 200 $\mu g \ lg G_3$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

FAHD2A (H-11) is recommended for detection of FAHD2A 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 FAHD2A siRNA (h): sc-94729, FAHD2A siRNA (m): sc-145007, FAHD2A shRNA Plasmid (h): sc-94729-SH, FAHD2A shRNA Plasmid (m): sc-145007-SH, FAHD2A shRNA (h) Lentiviral Particles: sc-94729-V and FAHD2A shRNA (m) Lentiviral Particles: sc-145007-V.

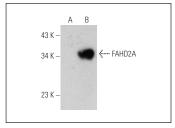
Molecular Weight of FAHD2A: 35 kDa.

Positive Controls: FAHD2A (m): 293T Lysate: sc-126823.

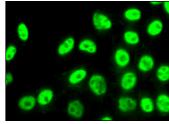
RECOMMENDED SUPPORT REAGENTS

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



FAHD2A (H-11): sc-515367. Western blot analysis of FAHD2A expression in non-transfected: sc-117752 (A) and mouse FAHD2A transfected: sc-126823 (B) 293T whole cell lysates.



FAHD2A (H-11): sc-515367. Immunofluorescence staining of formalin-fixed HeLa cells showing 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.