

# FAHD2A (H-120): sc-135057

## 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 ichthyosis, a rare and morbid skin deformity, is associated with mutations in the ABCA12 gene. The lipid metabolic disorder sitosterolemia 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

FAHD2A (H-120) is a rabbit polyclonal antibody raised against amino acids 160-279 mapping within an internal region of FAHD2A of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

FAHD2A (H-120) is recommended for detection of FAHD2A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

FAHD2A (H-120) is also recommended for detection of FAHD2A in additional species, including equine, canine, bovine and porcine.

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.

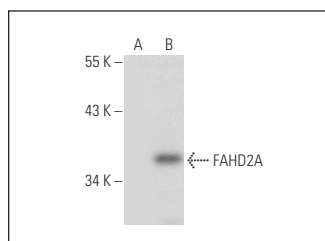
Molecular Weight of FAHD2A: 35 kDa.

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

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



FAHD2A (H-120): sc-135057. Western blot analysis of FAHD2A expression in non-transfected: sc-117752 (A) and mouse FAHD2A transfected: sc-126823 (B) 293T whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **FAHD2A (H-11): sc-515367**, our highly recommended monoclonal alternative to FAHD2A (H-120).