

IFT81 (H-300): sc-292207

BACKGROUND

IFT81 (intraflagellar transport 81), also known as CDV1 (carnitine deficiency-associated protein expressed in ventricle 1), is a 676 amino acid protein that is present at high levels in testis and is moderately expressed in heart, liver, ovary, pancreas, kidney and skeletal muscle. Existing as three alternatively spliced isoforms, two of which are designated CDV-1 and CDV-1R, IFT81 plays a role in testicular development and spermatogenesis and may also be involved in cardiac hypertrophy caused by carnitine deficiency. The gene encoding IFT81 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IFT81 (human) mapping to 12q24.11; Ift81 (mouse) mapping to 5 F.

SOURCE

IFT81 (H-300) is a rabbit polyclonal antibody raised against amino acids 377-676 mapping at the C-terminus of IFT81 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

IFT81 (H-300) is recommended for detection of IFT81 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).

IFT81 (H-300) is also recommended for detection of IFT81 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for IFT81 siRNA (h): sc-96191, IFT81 siRNA (m): sc-146177, IFT81 shRNA Plasmid (h): sc-96191-SH, IFT81 shRNA Plasmid (m): sc-146177-SH, IFT81 shRNA (h) Lentiviral Particles: sc-96191-V and IFT81 shRNA (m) Lentiviral Particles: sc-146177-V.

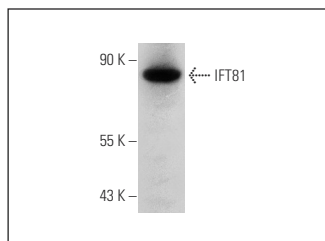
Molecular Weight of IFT81: 80 kDa.

Positive Controls: mouse testis extract: sc-2405.

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



IFT81 (H-300): sc-292207. Western blot analysis of IFT81 expression in mouse testis tissue extract.

RESEARCH USE

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

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Try **IFT81 (A-3): sc-374272** or **IFT81 (B-1): sc-374219**, our highly recommended monoclonal alternatives to IFT81 (H-300).