FLJ10081 (S-12): sc-240455



The Power to Question

BACKGROUND

The second largest human chromosome, 2 consists of 237 million bases encoding over 1,400 genes and making 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 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. The FLJ10081 gene product has been provisionally designated FLJ10081 pending further characterization.

REFERENCES

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- 2. Avarello, R., et al. 1992. Evidence for an ancestral alphoid domain on the long arm of human chromosome 2. Hum. Genet. 89: 247-249.
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- 4. Thomas, A.C., et al. 2006. ABCA12 is the major harlequin ich-thyosis gene. J. Invest. Dermatol. 126: 2408-2413.
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- Marshall, J.D., et al. 2007. Alström syndrome. Eur. J. Hum. Genet. 15: 1193-1202.
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CHROMOSOMAL LOCATION

Genetic locus: KANSL3 (human) mapping to 2q11.2; Kansl3 (mouse) mapping to 1 B.

SOURCE

FLJ10081 (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FLJ10081 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-240455 P, (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

FLJ10081 (S-12) is recommended for detection of 4632411B12Rik of mouse origin, FLJ10081 of human origin and RGD1309220 of rat 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).

FLJ10081 (S-12) is also recommended for detection of FLJ10081 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for FLJ10081 siRNA (h): sc-94270, 4632411B12Rik siRNA (m): sc-108946, FLJ10081 shRNA Plasmid (h): sc-94270-SH, 4632411B12Rik shRNA Plasmid (m): sc-108946-SH, FLJ10081 shRNA (h) Lentiviral Particles: sc-94270-V and 4632411B12Rik shRNA (m) Lentiviral Particles: sc-108946-V.

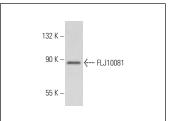
Molecular Weight of FLJ10081: 96 kDa.

Positive Controls: human tonsil extract: sc-364263, HEK293 whole cell lysate: sc-45136 or RT-4 whole cell lysate: sc-364257.

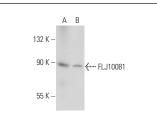
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA







FLJ10081 (S-12): sc-240455. Western blot analysis of FLJ10081 expression in RT-4 whole cell lysate.

FLJ10081 (S-12): sc-240455. Western blot analysis of FLJ10081 expression in human tonsil tissue extract (A) and HEK293 whole cell lysate (B).

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 or our catalog for detailed protocols and support products.