

MFSD6L (D-16): sc-243477

BACKGROUND

MFSD6L (major facilitator superfamily domain containing 6-like), also known as FP7072, is a 586 amino acid multi-pass membrane protein of the MFSD6 family and major facilitator superfamily. The gene encoding MFSD6L maps to human chromosome 17, which contains about 81 million bases and 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though it is specifically recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes. Chromosome 17 is also linked to neurofibromatosis, a condition characterized by neural and epidermal lesions, and dysregulated Schwann cell growth.

REFERENCES

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4. Dann, R.B., et al. 2007. Strategies for ovarian cancer prevention. *Obstet. Gynecol. Clin. North Am.* 34: 667-686.
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CHROMOSOMAL LOCATION

Genetic locus: MFSD6L (human) mapping to 17p13.1; *Mfsd6l* (mouse) mapping to 11 B3.

SOURCE

MFSD6L (D-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MFSD6L of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-243477 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MFSD6L (D-16) is recommended for detection of MFSD6L 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); non cross-reactive with MFSD6.

MFSD6L (D-16) is also recommended for detection of MFSD6L in additional species, including canine and porcine.

Suitable for use as control antibody for MFSD6L siRNA (h): sc-93918, MFSD6L siRNA (m): sc-141537, MFSD6L shRNA Plasmid (h): sc-93918-SH, MFSD6L shRNA Plasmid (m): sc-141537-SH, MFSD6L shRNA (h) Lentiviral Particles: sc-93918-V and MFSD6L shRNA (m) Lentiviral Particles: sc-141537-V.

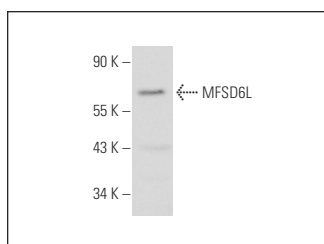
Molecular Weight of MFSD6L: 64 kDa.

Positive Controls: KNRK whole cell lysate: sc-2214.

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



MFSD6L (D-16): sc-243477. Western blot analysis of MFSD6L expression in KNRK whole cell lysate.

RESEARCH USE

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