

MFSD6 (Q-14): sc-168596

BACKGROUND

The major facilitator superfamily consists of presumed carbohydrate transporters with ten to twelve membrane-spanning domains. MFSD6 (major facilitator superfamily domain containing 6), also known as MMR2 (macrophage MHC class I receptor 2 homolog), is a 791 amino acid multi-pass membrane protein that belongs to the MFSD6 family and major facilitator superfamily. While widely expressed, MFSD6 is found at highly variable levels in peripheral blood mononuclear cells between individuals. The gene encoding MFSD6 maps to 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MFSD6 (human) mapping to 2q32.2; Mfsd6 (mouse) mapping to 1 C1.1.

SOURCE

MFSD6 (Q-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of MFSD6 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.

Blocking peptide available for competition studies, sc-168596 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MFSD6 (Q-14) is recommended for detection of MFSD6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

MFSD6 (Q-14) is also recommended for detection of MFSD6 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FLJ20160 siRNA (h): sc-94590, MMR2 siRNA (m): sc-149482, FLJ20160 shRNA Plasmid (h): sc-94590-SH, MMR2 shRNA Plasmid (m): sc-149482-SH, FLJ20160 shRNA (h) Lentiviral Particles: sc-94590-V and MMR2 shRNA (m) Lentiviral Particles: sc-149482-V.

Molecular Weight of MFSD6: 88 kDa.

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) 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.

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 or our catalog for detailed protocols and support products.