

FAM178A (Q-16): sc-163781

BACKGROUND

FAM178A is a 1,173 amino acid protein that is phosphorylated upon DNA damage. Widely expressed, it is present at highest levels in skeletal muscle and at slightly lower levels in heart, liver and brain. The gene encoding FAM178A is located within the locus associated with inherited infantile onset spinocerebellar ataxia (IOSCA), a progressive disorder that affects the nervous system and is characterized by ataxia, hypotonia, athetosis and hyporeflexia. Despite its location, no mutations within the FAM178A gene have been found in IOSCA patients and expression levels of FAM178A are no different as compared to normal subjects.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FAM178A (human) mapping to 10q24.31; Fam178a (mouse) mapping to 19 C3.

SOURCE

FAM178A (Q-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FAM178A 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-163781 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FAM178A (Q-16) is recommended for detection of FAM178A 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); non cross-reactive with other C10orf family members.

FAM178A (Q-16) is also recommended for detection of FAM178A in additional species, including equine, canine and bovine.

Suitable for use as control antibody for FAM178A siRNA (h): sc-90323, FAM178A siRNA (m): sc-140422, FAM178A shRNA Plasmid (h): sc-90323-SH, FAM178A shRNA Plasmid (m): sc-140422-SH, FAM178A shRNA (h) Lentiviral Particles: sc-90323-V and FAM178A shRNA (m) Lentiviral Particles: sc-140422-V.

Molecular Weight of FAM178A: 132 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.

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.