FMR2 (T-17): sc-70068



The Power to Question

BACKGROUND

FMR2 (fragile X mental retardation 2), also known as AF4 family member 2 (AFF2) or protein 0x19, is a 1,311 amino acid nuclear protein belonging to the AF4 family. Expressed in the brain, placenta and lung, FMR2 exists as two isoforms produced by alternative splicing. Defects in the gene that encodes FMR2 have been found to be a cause of FRAXE, an X-linked form of mental retardation. Individuals expressing the FRAXE site also have more than 200 copies of a GCC repeat adjacent to CpG island, compared to 6 to 35 copies of the GCC repeat in a normal individual. It is believed that loss of FMR2 expression causes this GCC expansion of the FRAXE site.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: AFF2 (human) mapping to Xq28; Aff2 (mouse) mapping to X A7.1.

SOURCE

FMR2 (T-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FMR2 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-70068 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FMR2 (T-17) is recommended for detection of FMR2 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).

FMR2 (T-17) is also recommended for detection of FMR2 in additional species, including equine, canine, bovine and porcine.

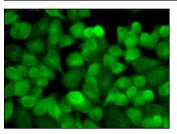
Suitable for use as control antibody for FMR2 siRNA (h): sc-75046, FMR2 siRNA (m): sc-75047, FMR2 shRNA Plasmid (h): sc-75046-SH, FMR2 shRNA Plasmid (m): sc-75047-SH, FMR2 shRNA (h) Lentiviral Particles: sc-75046-V and FMR2 shRNA (m) Lentiviral Particles: sc-75047-V.

Molecular Weight of FMR2: 140 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.

DATA



FMR2 (T-17): sc-70068. Immunofluorescence staining of formalin-fixed HeLa cells showing nuclear and cytoplasmic localization. Kindly provided by Yang Xiang, Ph.D., Division of Newborn Medicine, Boston Children's Hospital, Cell Biology Department, Harvard Medical School.

RESEARCH USE

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