

TETRA (D-15): sc-244293

BACKGROUND

TETRA (tetracycline transporter-like protein), also known as MFSD10 (major facilitator superfamily domain-containing protein 10), is a 455 amino acid member of the major facilitator superfamily. Localized to the membrane, TETRA may function as an efflux pump of organic anions, including non-steroidal anti-inflammatory drugs diclofenac and indomethacin. The gene that encodes TETRA maps to human chromosome 4, which represents approximately 6% of the human genome and contains nearly 900 genes. Notably, the Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is on chromosome 4. FGFR-3 is also encoded on chromosome 4 and has been associated with thanatophoric dwarfism, achondroplasia, Muenke syndrome and bladder cancer. Chromosome 4 is also tied to Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease. Chromosome 4 reportedly contains the largest gene deserts (regions of the genome with no protein encoding genes) and has one of the two lowest recombination frequencies of the human chromosomes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MFSD10 (human) mapping to 4p16.3; Mfsd10 (mouse) mapping to 5 B2.

SOURCE

TETRA (D-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TETRA 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-244293 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TETRA (D-15) is recommended for detection of TETRA 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).

TETRA (D-15) is also recommended for detection of TETRA in additional species, including equine, canine and bovine.

Suitable for use as control antibody for TETRA siRNA (h): sc-89326, TETRA siRNA (m): sc-154207, TETRA shRNA Plasmid (h): sc-89326-SH, TETRA shRNA Plasmid (m): sc-154207-SH, TETRA shRNA (h) Lentiviral Particles: sc-89326-V and TETRA shRNA (m) Lentiviral Particles: sc-154207-V.

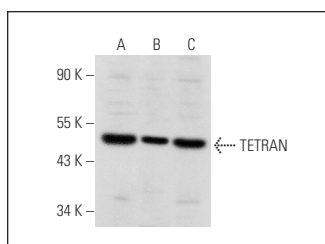
Molecular Weight of TETRA: 48 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or K-562 whole cell lysate: sc-2203.

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



TETRA (D-15): sc-244293. Western blot analysis of TETRA expression in Jurkat (A), HeLa (B) and K-562 (C) whole cell lysates.

RESEARCH USE

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