

TAPT1 (P-15): sc-165648

BACKGROUND

TAPT1 (transmembrane anterior posterior transformation protein 1 homolog), also known as cytomegalovirus partial fusion receptor (CMVFR), is a 567 amino acid multi-pass membrane protein belonging to the TAPT1 family. TAPT1 is ubiquitously expressed and highly conserved, and may function as a transmitter of extracellular information required for axial skeletal patterning during development. TAPT1 exists as two alternatively spliced isoforms, and is encoded by a gene that maps to human chromosome 4p15.32. Chromosome 4 represents approximately 6% of the human genome and contains nearly 900 genes. The Huntingtin gene, which is found to encode an expanded glutamine tract in cases of Huntington's disease, is located on chromosome 4. FGFR-3 is also encoded by a gene that maps to human 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.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TAPT1 (human) mapping to 4p15.32; Tapt1 (mouse) mapping to 5 B3.

SOURCE

TAPT1 (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TAPT1 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-165648 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TAPT1 (P-15) is recommended for detection of TAPT1 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).

TAPT1 (P-15) is also recommended for detection of TAPT1 in additional species, including equine.

Suitable for use as control antibody for TAPT1 siRNA (h): sc-89016, TAPT1 siRNA (m): sc-154070, TAPT1 shRNA Plasmid (h): sc-89016-SH, TAPT1 shRNA Plasmid (m): sc-154070-SH, TAPT1 shRNA (h) Lentiviral Particles: sc-89016-V and TAPT1 shRNA (m) Lentiviral Particles: sc-154070-V.

Molecular Weight of TAPT1 isoforms 1/2: 64 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.