

Tctex5 (FL-126): sc-135427

BACKGROUND

Tctex5, also known as PPP1R11 (protein phosphatase 1, regulatory (inhibitor) subunit 11), HCGV or TCTE5, is a 126 amino acid protein that is expressed in a variety of both adult and fetal tissues. Tctex5 functions as an inhibitor of PP1 (protein phosphatase 1), specifically exhibiting a sensitivity toward the metal-independent and metal-dependent forms of PP1. Sharing 87% sequence similarity with its mouse counterpart, Tctex5 is thought to be evolutionarily conserved throughout animal evolution, particularly between rat, bovine, canine, rabbit and human. The gene encoding Tctex5 maps to human chromosome 6, which contains 170 million base pairs and comprises nearly 6% of the human genome. Deletion of a portion of the q arm of chromosome 6 is associated with early onset intestinal cancer, suggesting the presence of a cancer susceptibility locus. Additionally, Porphyria cutanea tarda, Parkinson's disease, Stickler syndrome and a susceptibility to bipolar disorder are all associated with genes that map to chromosome 6.

REFERENCES

1. Amadou, C., et al. 1995. Localization of new genes and markers to the distal part of the human major histocompatibility complex (MHC) region and comparison with the mouse: new insights into the evolution of mammalian genomes. *Genomics* 26: 9-20.
2. Lepourcelet, M., et al. 1996. Systematic sequencing of the human HLA-A/HLA-F region: establishment of a cosmid contig and identification of a new gene cluster within 37 kb of sequence. *Genomics* 37: 316-326.
3. Giffon, T., et al. 1996. Cloning of a human homologue of the mouse Tctex-5 gene within the MHC class I region. *Immunogenetics* 44: 331-339.
4. Zhang, J., et al. 1998. Identification and characterization of the human HCGV gene product as a novel inhibitor of protein phosphatase-1. *Biochemistry* 37: 16728-16734.
5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 606670. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: PPP1R11 (human) mapping to 6p22.1; Ppp1r11 (mouse) mapping to 17 B1.

SOURCE

Tctex5 (FL-126) is a rabbit polyclonal antibody raised against amino acids 1-126 representing full length Tctex5 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.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

Tctex5 (FL-126) is recommended for detection of Tctex5 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).

Tctex5 (FL-126) is also recommended for detection of Tctex5 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Tctex5 siRNA (h): sc-95416, Tctex5 siRNA (m): sc-154152, Tctex5 shRNA Plasmid (h): sc-95416-SH, Tctex5 shRNA Plasmid (m): sc-154152-SH, Tctex5 shRNA (h) Lentiviral Particles: sc-95416-V and Tctex5 shRNA (m) Lentiviral Particles: sc-154152-V.

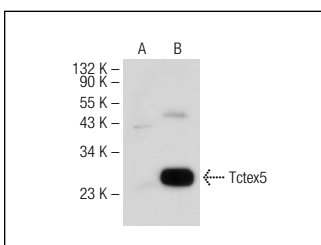
Molecular Weight of Tctex5: 23 kDa.

Positive Controls: Tctex5 (m): 293T Lysate: sc-123963.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Tctex5 (FL-126): sc-135427. Western blot analysis of Tctex5 expression in non-transfected: sc-117752 (A) and mouse Tctex5 transfected: sc-123963 (B) 293T whole cell lysates.

RESEARCH USE

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

MONOS
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Try **Tctex5 (D-9): sc-376034**, our highly recommended monoclonal alternative to Tctex5 (FL-126).