

TTC39C (G-6): sc-390575

BACKGROUND

Encoding over 300 genes, chromosome 18 contains about 76 million bases. Trisomy 18, or Edwards syndrome, is the second most common trisomy after Down's syndrome. Symptoms of Edwards syndrome include low birth weight, a variety of physical development defects, heart deformations and breathing difficulty. Translocation between chromosome 18 and 14 is the most common translocation in cancers, and occurs in follicular lymphomas. Niemann-Pick disease, hereditary hemorrhagic telangiectasia and erythropoietic protoporphyria are associated with chromosome 18. The TGF β modulators, Smad2, Smad4 and Smad7 are encoded by chromosome 18. The C18orf17 gene product has been provisionally designated C18orf17 pending further characterization.

REFERENCES

1. Carstea, E.D., et al. 1993. Linkage of Niemann-Pick disease type C to human chromosome 18. *Proc. Natl. Acad. Sci. USA* 90: 2002-2004.
2. Petek, E., et al. 2003. Characterisation of a 19-year-old "long-term survivor" with Edwards syndrome. *Genet. Couns.* 14: 239-244.
3. Raghavan, S.C., et al. 2004. A non-B-DNA structure at the Bcl-2 major breakpoint region is cleaved by the RAG complex. *Nature* 428: 88-93.

CHROMOSOMAL LOCATION

Genetic locus: TTC39C (human) mapping to 18q11.2; Ttc39c (mouse) mapping to 18 A1.

SOURCE

TTC39C (G-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 543-571 near the C-terminus of TTC39C of human origin.

PRODUCT

Each vial contains 200 μ g IgG $_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TTC39C (G-6) is available conjugated to agarose (sc-390575 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390575 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390575 PE), fluorescein (sc-390575 FITC), Alexa Fluor[®] 488 (sc-390575 AF488), Alexa Fluor[®] 546 (sc-390575 AF546), Alexa Fluor[®] 594 (sc-390575 AF594) or Alexa Fluor[®] 647 (sc-390575 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-390575 AF680) or Alexa Fluor[®] 790 (sc-390575 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390575 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

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STORAGE

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

APPLICATIONS

TTC39C (G-6) is recommended for detection of TTC39C of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

TTC39C (G-6) is also recommended for detection of TTC39C in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TTC39C siRNA (h): sc-72674, TTC39C siRNA (m): sc-154777, TTC39C shRNA Plasmid (h): sc-72674-SH, TTC39C shRNA Plasmid (m): sc-154777-SH, TTC39C shRNA (h) Lentiviral Particles: sc-72674-V and TTC39C shRNA (m) Lentiviral Particles: sc-154777-V.

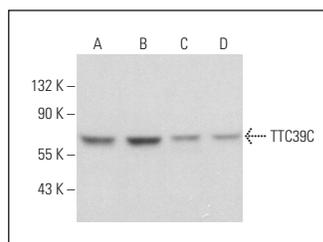
Molecular Weight of TTC39C: 66 kDa.

Positive Controls: TTC39C (m): 293T Lysate: sc-124357, HL-60 whole cell lysate: sc-2209 or U-698-M whole cell lysate: sc-364799.

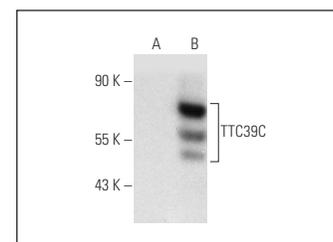
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker[™] Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 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 m-IgG κ BP-FITC: sc-516140 or m-IgG κ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz[®] Mounting Medium: sc-24941 or UltraCruz[®] Hard-set Mounting Medium: sc-359850.

DATA



TTC39C (G-6): sc-390575. Western blot analysis of TTC39C expression in HL-60 (A), U-698-M (B), ALL-SIL (C) and NIH/3T3 (D) whole cell lysates.



TTC39C (G-6): sc-390575. Western blot analysis of TTC39C expression in non-transfected: sc-117752 (A) and mouse TTC39C transfected: sc-124357 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

1. Hayes, C.S., et al. 2019. TTC39C is upregulated during skeletal muscle atrophy and modulates ERK1/2 MAP kinase and hedgehog signaling. *J. Cell. Physiol.* 234: 23807-23824.

RESEARCH USE

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