

PPP1R26 (H-2): sc-514778

BACKGROUND

Chromosome 9 consists of about 145 million bases and 4% of the human genome, encoding nearly 900 genes. Considered to play a role in gender determination, deletion of the distal portion of 9p can lead to development of male to female sex reversal, the phenotype of a female with a male X,Y genotype. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, is associated with the chromosome 9 gene-encoding Endoglin protein, ENG. Familial dysautonomia is also associated with chromosome 9 though through the gene IKBKAP. Notably, chromosome 9 encompasses the largest interferon family gene cluster. Chromosome 9 is partnered with chromosome 22 in the translocation leading to the aberrant production of Bcr-Abl fusion protein often found in leukemias.

REFERENCES

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- Yang, L., et al. 2005. KIAA0649, a 1A6/DRIM-interacting protein with the oncogenic potential. *Biochem. Biophys. Res. Commun.* 334: 884-890.
- Coppo, P., et al. 2006. Bcr-Abl activates STAT3 via JAK and MEK pathways in human cells. *Br. J. Haematol.* 134: 171-179.
- Zheng, X., et al. 2006. Bcr and its mutants, the reciprocal t(9;22)-associated Abl/Bcr fusion proteins, differentially regulate the cytoskeleton and cell motility. *BMC Cancer* 6: 262.
- Burmeister, T., et al. 2007. Atypical Bcr-Abl mRNA transcripts in adult acute lymphoblastic leukemia. *Haematologica* 92: 1699-1702.
- Cottin, V., et al. 2007. Pulmonary vascular manifestations of hereditary hemorrhagic telangiectasia (Rendu-Osler disease). *Respiration* 74: 361-378.

CHROMOSOMAL LOCATION

Genetic locus: PPP1R26 (human) mapping to 9q34.3; Ppp1r26 (mouse) mapping to 2 A3.

SOURCE

PPP1R26 (H-2) is a mouse monoclonal antibody raised against amino acids 986-1209 mapping at the C-terminus of PPP1R26 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PPP1R26 (H-2) is available conjugated to agarose (sc-514778 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514778 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514778 PE), fluorescein (sc-514778 FITC), Alexa Fluor® 488 (sc-514778 AF488), Alexa Fluor® 546 (sc-514778 AF546), Alexa Fluor® 594 (sc-514778 AF594) or Alexa Fluor® 647 (sc-514778 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514778 AF680) or Alexa Fluor® 790 (sc-514778 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

PPP1R26 (H-2) is recommended for detection of PPP1R26 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

Suitable for use as control antibody for PPP1R26 siRNA (h): sc-92920, PPP1R26 siRNA (m): sc-146445, PPP1R26 shRNA Plasmid (h): sc-92920-SH, PPP1R26 shRNA Plasmid (m): sc-146445-SH, PPP1R26 shRNA (h) Lentiviral Particles: sc-92920-V and PPP1R26 shRNA (m) Lentiviral Particles: sc-146445-V.

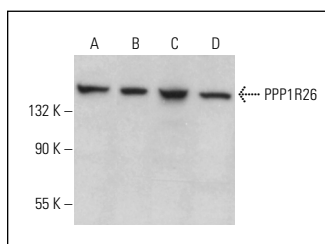
Molecular Weight of PPP1R26: 127 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Hep G2 cell lysate: sc-2227 or SK-N-MC cell lysate: sc-2237.

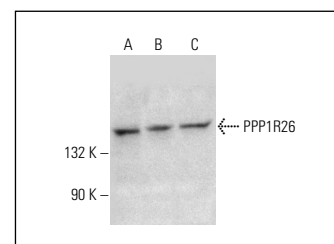
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ 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-IgGκ BP-FITC: sc-516140 or m-IgGκ 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



PPP1R26 (H-2): sc-514778. Western blot analysis of PPP1R26 expression in Hep G2 (A), EOC 20 (B), IMR-32 (C) and c4 (D) whole cell lysates.



PPP1R26 (H-2): sc-514778. Western blot analysis of PPP1R26 expression in HeLa nuclear extract (A) and Hep G2 (B) and SK-N-MC (C) whole cell lysates.

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 for detailed protocols and support products.