SANTA CRUZ BIOTECHNOLOGY, INC.

Parafibromin (H-300): sc-48770



BACKGROUND

Parathyroid tumors are heterogeneous and diagnosis of the disease is often difficult. The Parafibromin protein may be important as a marker for diagnosing parathyroid carcinoma. Parafibromin is encoded by the endocrine tumor suppressor gene CDC73 (cell division cycle 73, Paf1/RNA polymerase II complex component), alternatively known as the HRPT2 (hyperparathyroidism-jaw tumor syndrome 2) gene. The human CDC73 gene, which maps to chromosome 1q31.2, is the human homolog of Saccharomyces cerevisiae Cdc73 and is responsible for the hyperparathyroidism with jaw tumor syndrome (HPT-JT). Parafibromin is part of the RNA polymerase II/Paf1 complex, which is crucial for histone modification. This Parafibromin complex binds to both the non-phosphorylated forms and the Ser 2 and Ser 5 phosphorylated forms of the RNA polymerase II large subunit.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CDC73 (human) mapping to 1q31.2; Hrpt2 (mouse) mapping to 1 F.

SOURCE

Parafibromin (H-300) is a rabbit polyclonal antibody raised against amino acids 232-531 mapping at the C-terminus of Parafibromin of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Parafibromin (H-300) is recommended for detection of Parafibromin 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).

Parafibromin (H-300) is also recommended for detection of Parafibromin in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Parafibromin siRNA (h): sc-45528, Parafibromin siRNA (m): sc-45529, Parafibromin shRNA Plasmid (h): sc-45528-SH, Parafibromin shRNA Plasmid (m): sc-45529-SH, Parafibromin shRNA (h) Lentiviral Particles: sc-45528-V and Parafibromin shRNA (m) Lentiviral Particles: sc-45529-V.

Molecular Weight of Parafibromin: 60 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Parafibromin (h): 293T Lysate: sc-117050 or Parafibromin (m): 293T Lysate: sc-122375.

DATA





Parafibromin (H-300): sc-48770. Western blot analysis of Parafibromin expression in non-transfected 293T: sc-117752 (**A**), human Parafibromin transfected 293T: sc-117050 (**B**) and HeLa (**C**) whole cell lysates. Parafibromin (H-300): sc-48770. Western blot analysis of Parafibromin expression in non-transfected 2931: sc-117752 (A) and mouse Parafibromin transfected 2931: sc-122375 (B) 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 or our catalog for detailed protocols and support products.

MONOS Satisfation Guaranteed

Try **Parafibromin (2H1): sc-33638** or **Parafibromin** (A-8): sc-271877, our highly recommended monoclonal aternatives to Parafibromin (H-300). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **Parafibromin (2H1): sc-33638**.