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- Expressversand

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CCDC6 (h2): 293T Lysate: sc-117205

BACKGROUND

CCDC6 (coiled-coil domain containing 6), also known as H4, PTC, TPC or TST1, is a 585 amino acid cytoskeletal protein. Expressed throughout the body, CCDC6 exists in an α -helical conformation and has a leucine zipper domain through which it can fuse to PDGFR- β (platelet-derived growth factor receptor β), a protein that functions as a mitogen for mesenchyme- and glia-derived cells. Additionally, CCDC6 is a fusion partner of Ret (Ret receptor tyrosine kinase), a proto-oncogene that is involved in GDNF signaling. These fusion products are not present in normal cells but are the result of a chromosomal rearrangement in the CCDC6 gene, which renders the CCDC6 protein susceptible to fusion events. When CCDC6 is fused to either PDGFR- β or Ret, further chromosomal rearrangements may occur that can lead to various carcinomas including human papillary thyroid carcinoma, chronic myelomonocytic leukemia and mammary and cutaneous gland tumors.

REFERENCES

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- Tong, Q., et al. 1995. Characterization of the promoter region and oligomerization domain of H4 (D10S170), a gene frequently rearranged with the Ret proto-oncogene. *Oncogene* 10: 1781-1787.
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- Merolla, F., et al. 2007. Involvement of H4(D10S170) protein in ATM-dependent response to DNA damage. *Oncogene* 26: 6167-6175.
- Drechsler, M., et al. 2007. Fusion of H4/D10S170 to PDGFR- β in a patient with chronic myelomonocytic leukemia and long-term responsiveness to imatinib. *Ann. Hematol.* 86: 353-354.

CHROMOSOMAL LOCATION

Genetic locus: CCDC6 (human) mapping to 10q21.2.

PRODUCT

CCDC6 (h2): 293T Lysate represents a lysate of human CCDC6 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

CCDC6 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive CCDC6 antibodies. Recommended use: 10-20 μ l per lane.

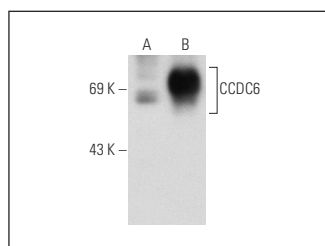
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CCDC6 (Q-23): sc-100309 is recommended as a positive control antibody for Western Blot analysis of enhanced human CCDC6 expression in CCDC6 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

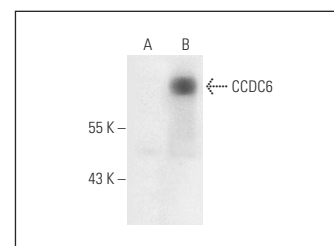
RECOMMENDED SUPPORT REAGENTS

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.

DATA



CCDC6 (Q-23): sc-100309. Western blot analysis of CCDC6 expression in non-transfected: sc-117752 (A) and human CCDC6 transfected: sc-117205 (B) 293T whole cell lysates.



CCDC6 (H-160): sc-292276. Western blot analysis of CCDC6 expression in non-transfected: sc-117752 (A) and human CCDC6 transfected: sc-117205 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.