

Ciao 1 (h): 293T Lysate: sc-115146

BACKGROUND

The Wilms tumor suppressor protein, WT1, contains a zinc finger domain and is capable of both activating or repressing transcription, depending on cell type and promoter context. A number of proteins, including various tumor suppressors, have been shown to interact with WT1. Interaction of WT1 with p53 results in increased p53 stability, and inhibits the ability of p53 to induce apoptosis. Par-4, a transcriptional repressor, is also known to bind WT1. Ciao 1, a member of the WD40 family of proteins, specifically interacts with WT1, resulting in a decrease in WT1 mediated transcriptional activation. Ciao 1 does not inhibit binding by causing a conformational change or by interfering with the activation domain of WT1.

REFERENCES

1. Maheswaran, S., Englert, C., Bennett, P., Heinrich, G. and Haber, D.A. 1995. The WT1 gene product stabilizes p53 and inhibits p53-mediated apoptosis. *Genes Dev.* 9: 2143-2156.
2. Johnstone, R.W., See, R.H., Sells, S.F., Wang, J., Muthukumar, S., Englert, C., Haber, D.A., Licht, J.D., Sugrue, S.P., Roberts, T., Rangnekar, V.M. and Shi, Y. 1996. A novel repressor, Par-4, modulates transcription and growth suppression functions of the Wilms' tumor suppressor WT1. *Mol. Cell. Biol.* 16: 6945-6956.
3. Johnstone, R.W., Wang, J., Tommerup, N., Vissing, H., Roberts, T. and Shi, Y. 1998. Ciao 1 is a novel WD40 protein that interacts with the tumor suppressor protein WT1. *J. Biol. Chem.* 273: 10880-10887.
4. Menke, A.L., van der Eb, A.J. and Jochemsen, A.G. 1998. The Wilms' tumor 1 gene: oncogene or tumor suppressor gene? *Int. Rev. Cytol.* 181: 151-212.

CHROMOSOMAL LOCATION

Genetic locus: WDR39 (human) mapping to 2q11.2.

PRODUCT

Ciao 1 (h): 293T Lysate represents a lysate of human Ciao 1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

Ciao 1 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Ciao 1 antibodies. Recommended use: 10-20 µl per lane.

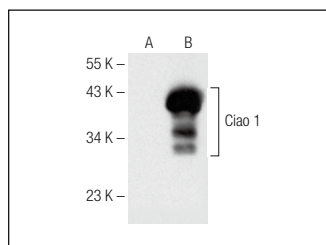
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Ciao 1 (E-10): sc-374498 is recommended as a positive control antibody for Western Blot analysis of enhanced human Ciao 1 expression in Ciao 1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

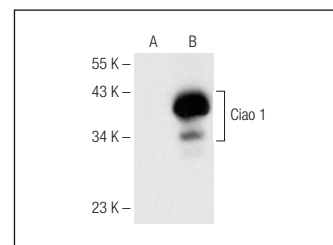
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-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.

DATA



Ciao 1 (E-10): sc-374498. Western blot analysis of Ciao 1 expression in non-transfected: sc-117752 (A) and human Ciao 1 transfected: sc-115146 (B) 293T whole cell lysates.



Ciao 1 (C-4): sc-374499. Western blot analysis of Ciao 1 expression in non-transfected: sc-117752 (A) and human Ciao 1 transfected: sc-115146 (B) 293T whole cell lysates.

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.