

Transcobalamin II (h): 293 Lysate: sc-112334

BACKGROUND

Transcobalamin I (TCI) and Transcobalamin II (TCII) are secreted proteins belonging to the eukaryotic cobalamin transport proteins family and also to the vitamin B12-binding protein family. The genes encoding these proteins map to chromosome 11q12.1 and 22q12.2, respectively. Transcobalamin I is a constituent of secondary granules in neutrophils, while Transcobalamin II binds cobalamin and mediates its transport into cells. These plasma proteins are expressed in various tissues and secretions.

REFERENCES

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3. Chen, X., et al. 2005. Influence of cobalamin deficiency compared with that of cobalamin absorption on serum holo-Transcobalamin II. *Am. J. Clin. Nutr.* 81: 110-114.
4. Fedosov, S.N., et al. 2005. Mapping the functional domains of human transcobalamin using monoclonal antibodies. *FEBS J.* 272: 3887-3898.
5. Swanson, D.A., et al. 2005. Evaluation of Transcobalamin II polymorphisms as neural tube defect risk factors in an Irish population. *Birth Defects Res. A Clin. Mol. Teratol.* 73: 239-244.
6. Martinelli, M., et al. 2006. Study of four genes belonging to the folate pathway: Transcobalamin 2 is involved in the onset of non-syndromic cleft lip with or without cleft palate. *Hum. Mutat.* 27: 294.
7. Böttiger, A.K. and Nilsson, T.K. 2007. Pyrosequencing assay for genotyping of the Transcobalamin II 776C>G polymorphism. *Scand. J. Clin. Lab. Invest.* 67: 247-251.

CHROMOSOMAL LOCATION

Genetic locus: TCN2 (human) mapping to 22q12.2.

PRODUCT

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

APPLICATIONS

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

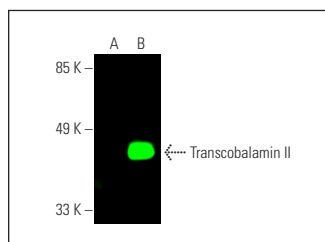
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Transcobalamin II (A-5): sc-137017 is recommended as a positive control antibody for Western Blot analysis of enhanced human Transcobalamin II expression in Transcobalamin II transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

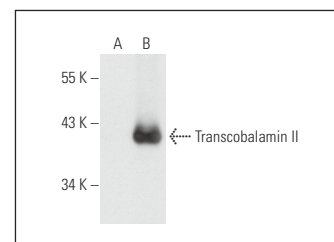
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGλ BP-HRP: sc-516132 or m-IgGλ BP-HRP (Cruz Marker): sc-516132-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



Transcobalamin II (A-5): sc-137017. Near-infrared western blot analysis of Transcobalamin II expression in non-transfected: sc-110760 (A) and human Transcobalamin II transfected: sc-112334 (B) 293 whole cell lysates. Blocked with UltraCruz® Blocking Reagent: sc-516214. Detection reagent used: m-IgGλ BP-CFL 680: sc-516194.



Transcobalamin II (A-5): sc-137017. Western blot analysis of Transcobalamin II expression in non-transfected: sc-110760 (A) and human Transcobalamin II transfected: sc-112334 (B) 293 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.

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.