SANTA CRUZ BIOTECHNOLOGY, INC.

Transcobalamin II (h2): 293T Lysate: sc-158002

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 11q11-q12 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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CHROMOSOMAL LOCATION

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

PRODUCT

Transcobalamin II (h2): 293T Lysate represents a lysate of human Transcobala-min II 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

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

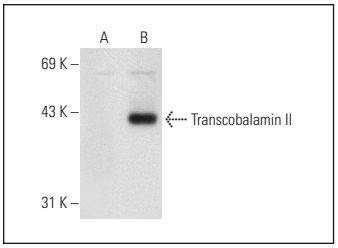
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

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 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-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. Western blot analysis of Transcobalamin II expression in non-transfected: sc-117752 (**A**) and human Transcobalamin II transfected: sc-158002 (**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.