CRABP-I (h): 293T Lysate: sc-159411



The Power to Question

BACKGROUND

The cellular retinoic acid-binding protein (CRABP)-I and a related isoform CRABP-II are nuclear receptors for retinoic acid (RA), an important regulator of cell growth and differentiation in fetal and adult tissues. These CRABP proteins mediate the downstream effects of RA in distinct ways. CRABP-I negatively regulates the activity of RA by enhancing the production of RA-metabolizing enzymes and increasing the rate at which RA is degraded. CRABP-II enhances the effects of RA by directly interacting with RA receptors (RAR) and, in turn, promoting the formation of RAR-RA complexes and stimulating RA-mediated gene transcription. Both CRABP-I and CRABP-II are expres-sed in the embryo, and CRABP-I is ubiquitously expressed in various adult tissues. The expression of CRABP-II is elevated in cells that synthesize relatively large amounts of RA, and it is also predominantly expressed in skin, uterus, ovary and in the choroid plexus.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CRABP1 (human) mapping to 15q25.1.

PRODUCT

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

APPLICATIONS

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

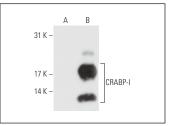
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CRABP-I/II (F-9): sc-166897 is recommended as a positive control antibody for Western Blot analysis of enhanced human CRABP-I expression in CRABP-I 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-lgGκ BP-HRP: sc-516102 or m-lgGκ 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



CRABP-I/II (F-9): sc-166897. Western blot analysis of CRABP-I expression in non-transfected: sc-117752 (A) and human CRABP-I transfected: sc-159411 (B) 293T whole cell I yeates.

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.