

RPTP α (h): 293T Lysate: sc-113711

BACKGROUND

Receptor protein-tyrosine phosphatase α (RPTP α) dephosphorylates and activates Src family tyrosine kinases and influences the regulation of integrin signaling, cell adhesion and growth factor responsiveness. RPTP α contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and constitutively forms dimers in the membrane. The human RPTP α sequence encodes a 793 amino acid protein. Mouse RPTP α precipitated from NIH/3T3 cells is constitutively phosphorylated at Ser180/Ser204. RPTP α also serves as a receptor for *Helicobacter pylori* vacuolating cytotoxin, VacA.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PTPRA (human) mapping to 20p13.

PRODUCT

RPTP α (h): 293T Lysate represents a lysate of human RPTP α transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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.

RESEARCH USE

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

APPLICATIONS

RPTP α (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive RPTP α 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.

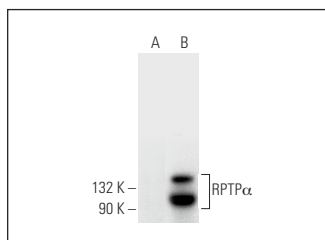
RPTP α (H-4): sc-398203 is recommended as a positive control antibody for Western Blot analysis of enhanced human RPTP α expression in RPTP α transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

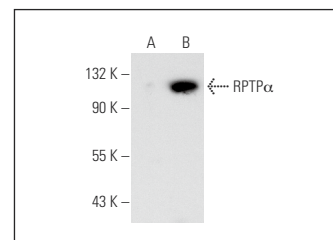
To ensure optimal results, the following support reagents are recommended:

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



RPTP α (H-4): sc-398203. Western blot analysis of RPTP α expression in non-transfected: sc-117752 (A) and human RPTP α transfected: sc-113711 (B) 293T whole cell lysates.



RPTP α (D-11): sc-133069. Western blot analysis of RPTP α expression in non-transfected: sc-117752 (A) and human RPTP α transfected: sc-113711 (B) 293T whole cell lysates.

PROTOCOLS

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