

Septin 10 (h): 293 Lysate: sc-113209

BACKGROUND

The septins are a family of GTPase enzymes, some of which are required for cytokinesis and others of which are associated with exocytosis. Members of the septin family can form heteropolymer complexes and also play a role in the organization of new growth in organisms. The transcriptional regulation of all septins is complex, resulting in alternatively spliced variants. Septin 10, a 517 residue polypeptide which localizes to the cytoplasm and nucleus, shares closest homology to Septin 6 and Septin 8. Septin 10 is expressed ubiquitously, though most abundantly in the placenta, lung, kidney, heart, skeletal muscles, liver and various tumor cell lines. Like other septin family members, Septin 10 displays GTP-binding and GTPase activity. Additionally, Septin 10 is potentially involved in cytokinesis. Upon maturation induced by lipopolysaccharide (LPS), dendritic cells express upregulated amounts of Septin 10.

REFERENCES

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- Kinoshita, M. and Noda, M. 2002. Roles of septins in the mammalian cytokinesis machinery. *Cell Struct. Funct.* 26: 667-670.
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- Joo, E., Tsang, C.W. and Trimble, W.S. 2005. Septins: traffic control at the cytokinesis intersection. *Traffic* 6: 626-634.

CHROMOSOMAL LOCATION

Genetic locus: SEPT10 (human) mapping to 2q13.

PRODUCT

Septin 10 (h): 293 Lysate represents a lysate of human Septin 10 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

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

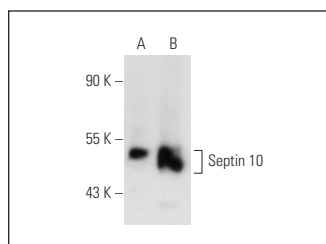
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Septin 10 (C-1): sc-166175 is recommended as a positive control antibody for Western Blot analysis of enhanced human Septin 10 expression in Septin 10 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-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



Septin 10 (C-1): sc-166175. Western blot analysis of Septin 10 expression in non-transfected: sc-110760 (A) and human Septin 10 transfected: sc-113209 (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.