

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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p47 (h): 293T Lysate: sc-175045



The Power to Question

BACKGROUND

p47, also known as NSFL1C, UBX1, UBXD10 or UBXN2C, is a 370 amino acid protein that localizes to both the nucleus and the Golgi apparatus (specifically to Golgi stacks) and contains one SEP domain and one UBX domain. Functioning as part of a ternary complex with VCP (a protein involved in the heterotypic fusion of transport vesicles with their target membranes) and Syntaxin 5, p47 interacts with and reduces the ATPase activity of VCP and is required for the fragmentation of Golgi stacks during mitosis and for subsequent reassembly of Golgi stacks after mitosis. p47 is subject to phosphorylation during mitosis, which inhibits p47-Golgi interaction and is, therefore, required for proper Golgi stack formation and cisternal regrowth. Human p47 shares 89% sequence identity with its mouse counterpart, suggesting a conserved role between species. Multiple isoforms of p47 exist due to alternative splicing events.

REFERENCES

- 1. Kondo, H., et al. 1997. p47 is a cofactor for p97-mediated membrane fusion. Nature 388: 75-78.
- Rabouille, C., et al. 1998. Syntaxin 5 is a common component of the NSFand p97-mediated reassembly pathways of Golgi cisternae from mitotic Golgi fragments in vitro. Cell 92: 603-610.
- 3. Ye, Y., et al. 2001. The AAA ATPase Cdc48/p97 and its partners transport proteins from the ER into the cytosol. Nature 414: 652-656.
- Meyer, H.H., et al. 2002. Direct binding of ubiquitin conjugates by the mammalian p97 adaptor complexes, p47 and UFD1-NpI4. EMBO J. 21: 5645-5652.
- Uchiyama, K., et al. 2002. VCIP135, a novel essential factor for p97/p47mediated membrane fusion, is required for Golgi and ER assembly in vivo. J. Cell Biol. 159: 855-866.
- Uchiyama, K., et al. 2003. The localization and phosphorylation of p47 are important for Golgi disassembly-assembly during the cell cycle. J. Cell Biol. 161: 1067-1079.

CHROMOSOMAL LOCATION

Genetic locus: NSFL1C (human) mapping to 20p13.

PRODUCT

p47 (h): 293T Lysate represents a lysate of human p47 transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

APPLICATIONS

p47 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive p47 antibodies. Recommended use: $10-20~\mu$ l per lane.

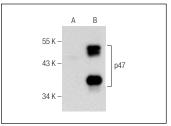
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

p47 (E-7): sc-376614 is recommended as a positive control antibody for Western Blot analysis of enhanced human p47 expression in p47 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-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



p47 (E-7): sc-376614. Western blot analysis of p47 expression in non-transfected: sc-117752 (**A**) and human p47 transfected: sc-175045 (**B**) 293T whole cell

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.

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