



LRRC26 (m2): 293T Lysate: sc-127100

BACKGROUND

The leucine-rich repeat (LRR) is a 20-30 amino acid motif that forms a hydrophobic α/β horseshoe fold, allowing it to accommodate several leucine residues within a tightly packed core. All LRR repeats contain a variable segment and a highly conserved segment, the latter of which accounts for 11 or 12 residues of the entire LRR motif. LRRC26 (leucine-rich repeat-containing protein 26), also known as CAPC (cytokeratin-associated protein), is a 334 amino acid protein that localizes to the cytoplasm and contains 6 LRR repeats. Expressed at high levels in normal colon, pancreas, prostate, salivary gland and intestine, LRRC26 is also present in several cancer cell lines, including colon cancer and pancreatic cancer, suggesting an important role in carcinogenesis.

REFERENCES

1. Kobe, B. and Deisenhofer, J. 1994. The leucine-rich repeat: a versatile binding motif. *Trends Biochem. Sci.* 19: 415-421.
2. Kobe, B. and Deisenhofer, J. 1995. Proteins with leucine-rich repeats. *Curr. Opin. Struct. Biol.* 5: 409-416.
3. Kobe, B. and Kajava, A.V. 2001. The leucine-rich repeat as a protein recognition motif. *Curr. Opin. Struct. Biol.* 11: 725-732.
4. Kedzierski, L., Montgomery, J., Curtis, J. and Handman, E. 2004. Leucine-rich repeats in host-pathogen interactions. *Arch. Immunol. Ther. Exp.* 52: 104-112.
5. Enkhbayar, P., Kamiya, M., Osaki, M., Matsumoto, T. and Matsushima, N. 2004. Structural principles of leucine-rich repeat (LRR) proteins. *Proteins* 54: 394-403.
6. Matsushima, N., Tachi, N., Kuroki, Y., Enkhbayar, P., Osaki, M., Kamiya, M. and Kretsinger, R.H. 2005. Structural analysis of leucine-rich-repeat variants in proteins associated with human diseases. *Cell. Mol. Life Sci.* 62: 2771-2791.
7. Eglund, K.A., Liu, X.F., Squires, S., Nagata, S., Man, Y.G., Bera, T.K., Onda, M., Vincent, J.J., Strausberg, R.L., Lee, B. and Pastan, I. 2006. High expression of a cytokeratin-associated protein in many cancers. *Proc. Natl. Acad. Sci. USA* 103: 5929-5934.

CHROMOSOMAL LOCATION

Genetic locus: *Lrrc26* (mouse) mapping to 2 A3.

PRODUCT

LRRC26 (m2): 293T Lysate represents a lysate of mouse LRRC26 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.

PROTOCOLS

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

APPLICATIONS

LRRC26 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive LRRC26 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.

RESEARCH USE

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