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SANTA CRUZ BIOTECHNOLOGY, INC.

Exportin 5 (m): 293T Lysate: sc-120145

BACKGROUND

The karyopherin-related nuclear transport factor Exportin 5, also known as Exp5, preferentially recognizes and transports RNAs containing minihelix motifs, structural *cis*-acting export elements that comprise a double-stranded stem (14 nucleotides) with a base-paired 5′ end and a 3-8-nucleotide protruding 3′ end. Exportin 5 also mediates protein transport between the nuclear and cytoplasmic compartment. Exportin 5 belongs to a large family of karyopherins and stimulates nuclear export of dsRNA binding proteins eEF1A and tRNA.

REFERENCES

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2. Brownawell, A.M. and Macara, I.G. 2002. Exportin 5, a novel karyopherin, mediates nuclear export of double-stranded RNA binding proteins. J. Cell Biol. 156: 53-64.
3. Chen, T., Brownawell, A.M. and Macara, I.G. 2004. Nucleocytoplasmic shuttling of JAZ, a new cargo protein for Exportin 5. Mol. Cell. Biol. 24: 6608-6619.
4. Gwizdek, C., Ossareh-Nazari, B., Brownawell, A.M., Evers, S., Macara, I.G. and Dargemont, C. 2004. Minihelix-containing RNAs mediate Exportin 5-dependent nuclear export of the double-stranded RNA-binding protein ILF3. J. Biol. Chem. 279: 884-891.
5. Macchi, P., Brownawell, A.M., Grunewald, B., DesGroseillers, L., Macara, I.G. and Kiebler, M.A. 2004. The brain-specific double-stranded RNA-binding protein Staufen2: nucleolar accumulation and isoform-specific Exportin 5-dependent export. J. Biol. Chem. 279: 31440-31444.

CHROMOSOMAL LOCATION

Genetic locus: Xpo5 (mouse) mapping to 17 C.

PRODUCT

Exportin 5 (m): 293T Lysate represents a lysate of mouse Exportin 5 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Exportin 5 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Exportin 5 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.

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.