

A black and white photograph of a gel electrophoresis result. The gel has multiple lanes. The lane on the far right is labeled '100' and contains a single, prominent horizontal band. A red rectangular box is drawn around this band. Other lanes to the left of the '100' lane show faint, less distinct bands.

Western blot analysis showing SNAT2 and  $\beta$ -actin protein levels in C2C12 cells under different osmotic conditions (mOsm). The top panel shows SNAT2 protein levels, with a prominent band at 100 kDa and a smaller band at 55 kDa. The bottom panel shows  $\beta$ -actin protein levels, used as a loading control, with a band at 43 kDa. A red arrow indicates the 500 mOsm condition.

mOsm	300	400	500	600	700	800
SNAT2	Low	Medium	High	Very High	Medium	Low
$\beta$ -actin	High	High	High	High	High	High