

Active transport **Supplement**

Define active transport.

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What is the energy source for active transport?

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Give an example of active transport in plants.

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Why do root hair cells have many mitochondria?

Respiration.

The movement of particles through a cell membrane from a region of lower concentration to a region of higher concentration (i.e. against a concentration gradient), using energy from respiration.

To release the energy from respiration needed for active transport of ions.

Ion uptake by root hairs from very dilute soil solutions.