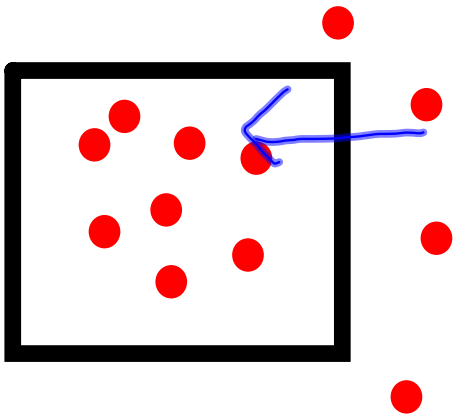
Chapter 4-2

Oct 24-8:17 PM

Sometimes things need to transported into the cell which might be against the concentration gradient.



active transport

Transporting against the concentration gradient is called

Active transport.

This requires the cell to use ATP (energy)

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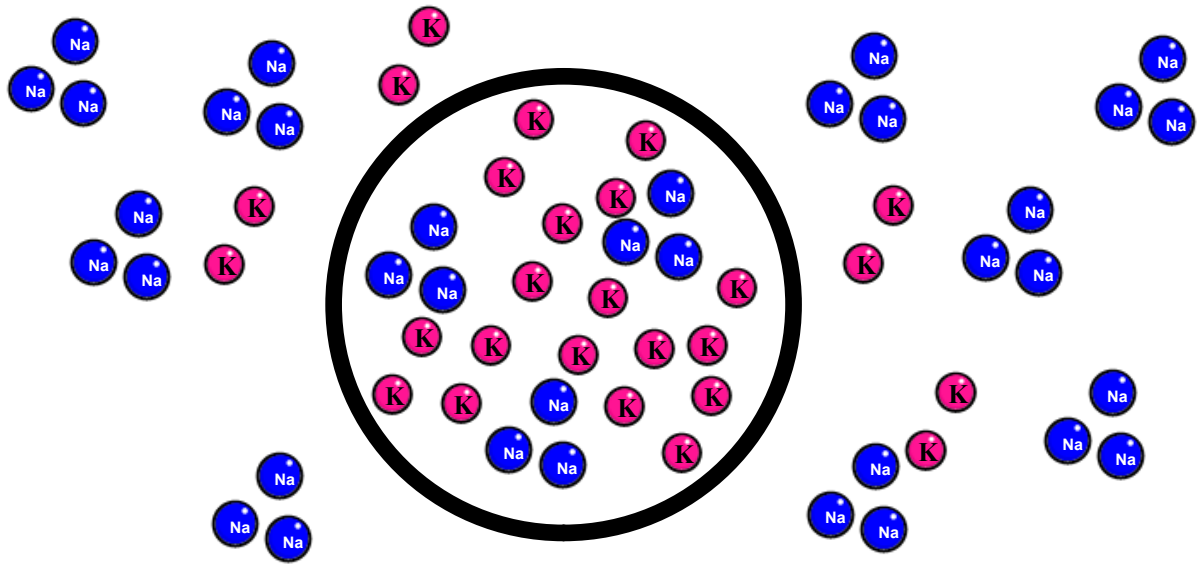
Sodium-Potassium Pump



The sodium-potassium pump does two things:

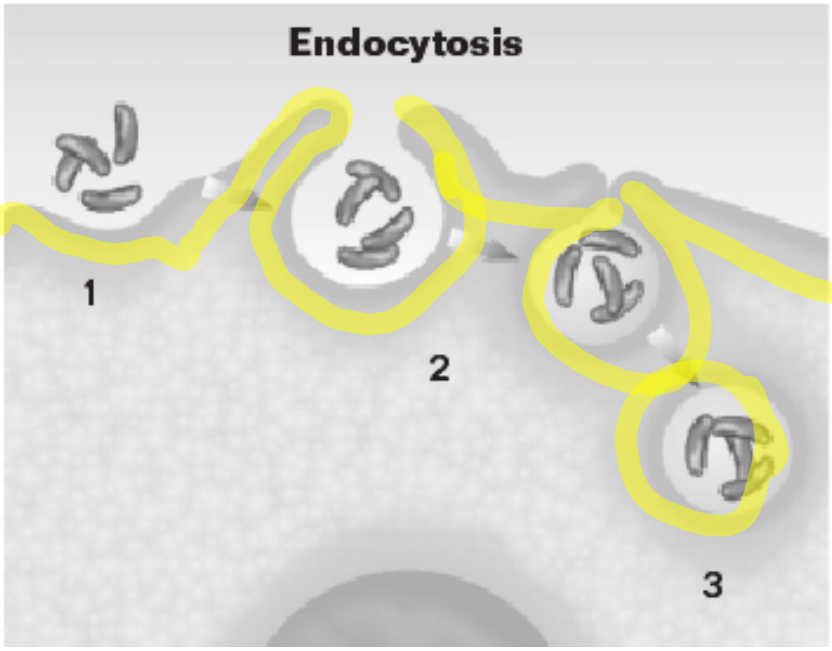
1. Prevents sodium from accumulating inside the cell. Sodium diffuses **into the cell.**

2. Maintains the sodium and potassium **gradients.**

Many substances are to large to be transported by Carrier Protein .

Endocytosis- movement of a Substance into a cell by a vesicle.

endo = in



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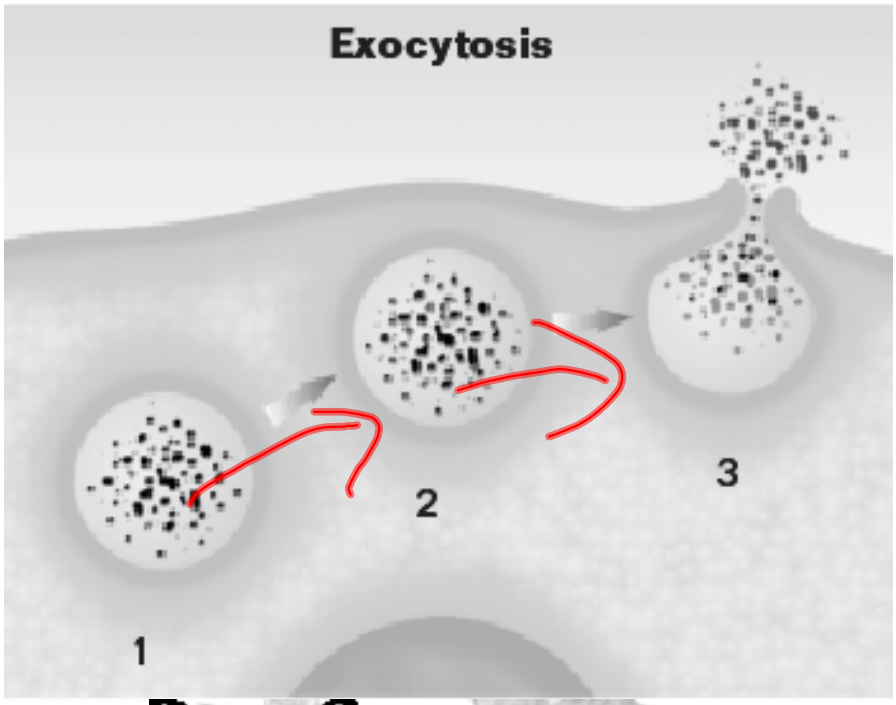
Exocytosis-
movement
of a substance by a vesicle to the outside **of a cell**

exo = ex



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Receptor proteins do three things

1. Can change permiability making an ion channel stay open.

door stop

2. It can make second **messengers that act as a signal** protein **in the cytoplasm.**

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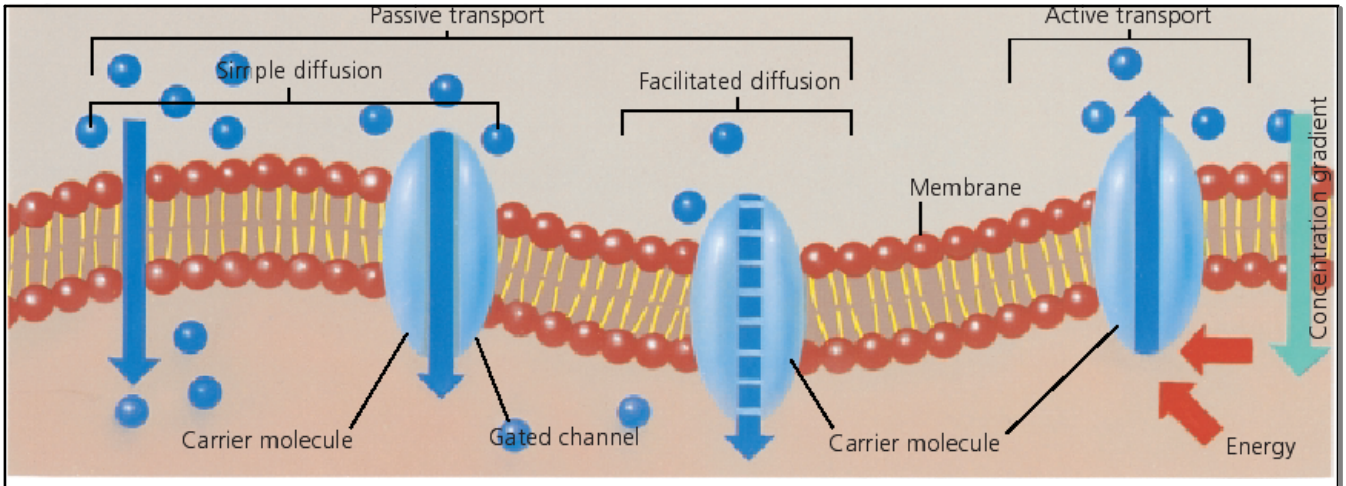
3. It can activate enzymes in cells or trigger other chemical reactions.



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TEACHING TRANSPARENCIES

Video