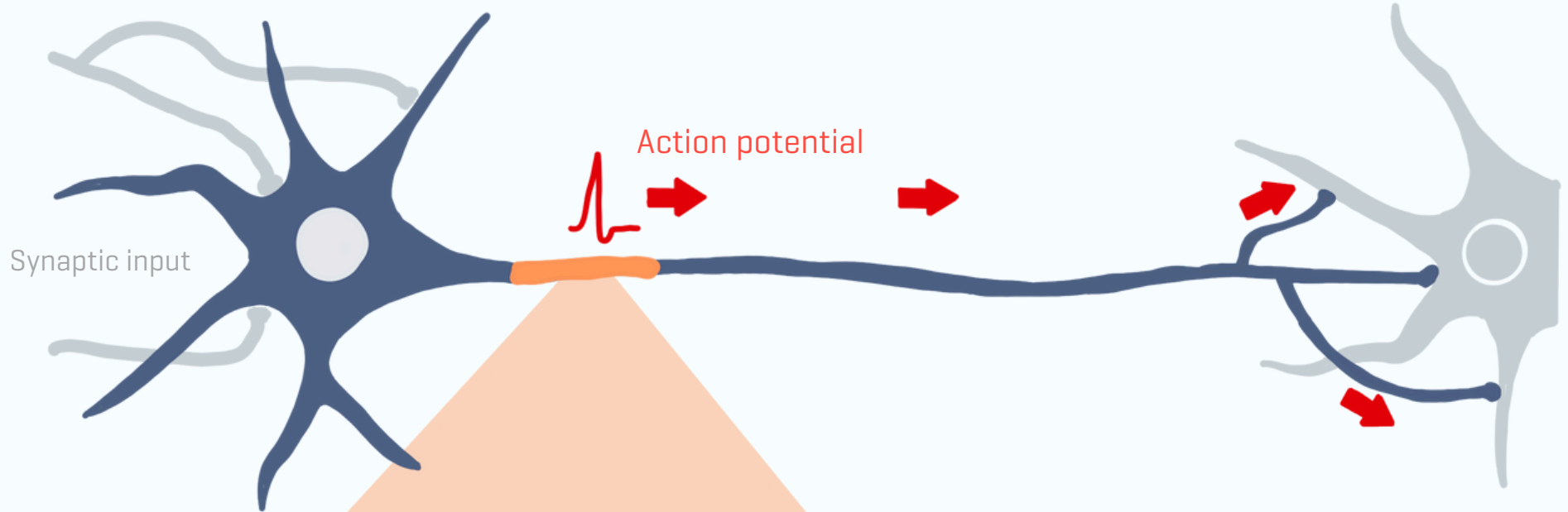


Cell body + dendrites

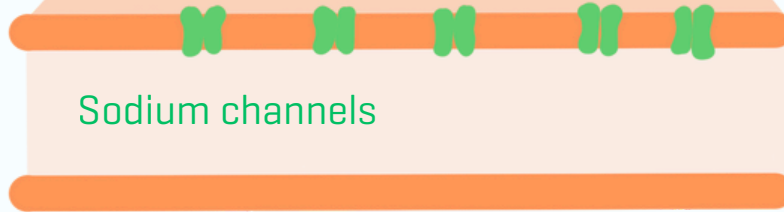
AIS

Axon

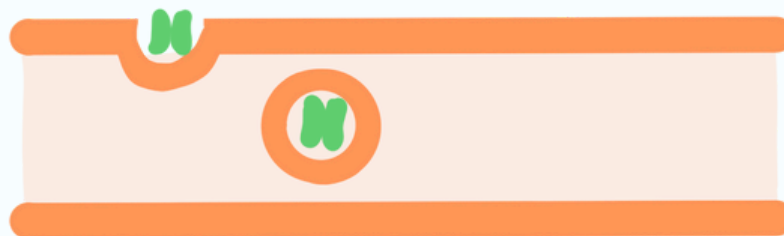


Plasma membrane

Sodium channels



VS



Low network activity

Many sodium channels to generate the signal and amplify output

High network activity

Sodium channels are internalised by the cell by a process called 'endocytosis'.