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□□□ an action potential occurs when the membrane potential of a specific cell rapidly rises and falls 1 this depolarization then causes adjacent locations to similarly depolarize action potentials occur in several types of excitable cells which include animal cells like neurons and muscle cells as well as some plant cells □□□ 2018□3□31□ an action potential is defined as a sudden fast transitory and propagating change of the resting membrane potential only neurons and muscle cells are capable of generating an action potential that property is called the excitability this article will discuss the definition steps and phases of the action potential ∏∏∏ 2023∏5∏8∏ an action potential is a rapid sequence of changes in the voltage across a membrane the membrane voltage or potential is determined at any time by the relative ratio of ions extracellular to intracellular and the permeability of □□□ 2024□5□23□ potential the brief about one thousandth of a second reversal of electric polarization of the membrane of a nerve cell neuron or muscle cell in the neuron an action potential produces the nerve impulse and in the muscle cell it produces the contraction required for all movement □□□ potentials work action potentials those electrical impulses that send signals around your body are nothing more than a temporary shift from negative to positive in the neuron s membrane potential caused ∏∏∏ the action potential resting membrane potential describes the steady state of the cell which is a dynamic process balancing ions leaking down their concentration gradient and ions being pumped back up their concentration gradient without any outside influence the resting membrane potential will be maintained ∏∏∏ 2019∏9∏26∏ potential is a predictable change in membrane potential that occurs due to the open and closing of voltage gated ion channels on the cell membrane electrically active cell membranes most cells in the body make use of charged particles ions to create electrochemical charge across the cell membrane [][] 2023[8]14[] introduction neurons are electrically excitable reacting to input via the production of electrical impulses propagated as action potentials throughout the cell and its axon these action potentials are generated and propagated by changes to the cationic gradient mainly sodium and potassium across their plasma membranes □□□ an action potential unlike a graded potential is an all or none event it may or may not occur but when it does occur it will always be of the same size is not proportional to the size of the stimulus

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