

Epithelial tissue

Location Skin, Lining of the digestive tract , Lining of the respiratory tract, Lining of blood vessels and heart

Characteristics It is made up of tightly packed cells containing little intercellular material, Generally lacks blood vessels, Is replaced frequently, Tends to have prominent nuclei when viewed under the microscope.

Functions Protection, Secretion, Absorption, Excretion

Simple One layer

Stratified Multiple layers

Simple squamous epithelium

Shape Squamous cells are flat, thin, and irregularly shaped

Function This type of tissue is best suited for facilitating diffusion and filtration due to its thin structure, allowing for the efficient exchange of gases and nutrients.

Location Alveoli of the lungs
Endothelium of blood vessels
Mesothelium lining body cavities
Glomeruli of the kidneys
Portions of the serous membranes

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