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Intercalated Cell

National Cancer Institute

Source

National Cancer Institute. *Intercalated Cell*. NCI Thesaurus. Code C13146.

The intercalated cell is an epithelial cell of the renal collecting tubule that is specialized for H^+ and HCO_3^- transport. These cells exist in two types, [alpha] and [beta]. The [alpha] cell secretes H^+ into the lumen by an apical H^+ ATPase and a basolateral $Cl:HCO_3^-$. The [beta] cell secretes HCO_3^- into the lumen by an apical $Cl:HCO_3^-$ and a basolateral H^+ ATPase.