Kidney – Distal Tubule

1) Cells sensitive to the action of aldosterone (mineralocorticoid involved in controlling $[\text{Na}^+]_{\text{blood}}$) contain MC receptor

2) Observation: Cells broken in vitro respond to glucocorticoids very well (reason is that cortisol and cortisone bind better to MC receptor than aldosterone does)

How does the body distinguish glucocorticoids & aldosterone to mediate MC action specifically?

- Cortisol
  - PM
  - Enzyme
    - 11 position is reduced $\rightarrow X$ $\leftarrow$ No longer binds to MC receptor
  - Nucleus
    - MC
    - DNA