Hypothalamus
shmulates posterior
pitnitary to release
less ADH

EFFECTOR:

DCT and lock (ollecting duct

RESPONSE:

perneability to water of DCT + collecting duct.
Decreased water reabsorption into blood plasma

RECE PTOR:

osmoreceptors in hypothalamus

FEEDBACK:

water conc. of blood plasma decreases, osmotic pressure increases.

STIMULUS:

Nater conc. of blood plasma increases, osmotic pressure decreases.

Normal Body Fluid Concentration

FEEDBACK:

mater conc. of blood plasma increases, osmotic pressure decreases.

STIMULUS:

Mater conc. of blood plasma decreases, osmotic pressure increases. (dehydration)

Hypothalamus stimulates thirst

RECEPTOR:

Osmoreceptors in the hypothalamus

RESPONSE:

Increased permeability
to water of DCT
and collecting duct. +
Increased water
reabsorbed into

blood plasma

EFFECTOR:

Distal convoluted tubule and collecting duct

MODULATOR:

Hypothalamus stimulates posterior pituitary to release ADH