

Nerve cell groups in dorsal horn of the spinal cord

Nerve cell	Location	Neurons	Extends	Afferent
Substantia gelatinosa	Rexed Laminae II Apex of the posterior horn	<u>Large</u> neurons	Throughout length of spinal cord	Dorsal root fibers (<u>pain, temperature and crude touch</u>)
Nucleus proprius	Rexed Laminae IV anterior to substantia gelatinosa	<u>Large</u> neurons	Throughout length of spinal cord	Dorsal root fibers (<u>fine touch(senses of position & movement (proprioception) and two point discrimination & vibration)</u>)
Nucleus dorsalis (nucleus thoracis, Clark's column)	Rexed Laminae VII base of dorsal horn	<u>Large</u> neurons	C8 to L3-4	“associated with proprioceptive endings.” Dorsal root fibers (<u>muscle spindles, tendon organs</u>)
Visceral afferent nucleus	Rexed Laminae VII lateral to nucleus dorsalis	<u>Medium</u> neurons	T1 to L3	Visceral afferents