

DRGX Antibody
Catalog # ASC11383**Specification**

DRGX Antibody - Product Information

Application	WB, IF
Primary Accession	A6NNA5
Other Accession	NP_001073989 , 122937484
Reactivity	Human, Mouse, Rat
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Application Notes	DRGX antibody can be used for detection of DRGX by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunofluorescence starting at 20 µg/mL. For immunofluorescence start at 20 µg/mL.

DRGX Antibody - Additional InformationGene ID **644168****Target/Specificity**

DRGX; At least two are known to exist; DRGX antibody is predicted to not cross-react with other Homeodomain proteins.

Reconstitution & Storage

DRGX antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions

DRGX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DRGX Antibody - Protein Information**Name** DRGX**Synonyms** PRRXL1**Function**

Transcription factor required for the formation of correct projections from nociceptive sensory neurons to the dorsal horn of the spinal cord and normal perception of pain.

Cellular Location

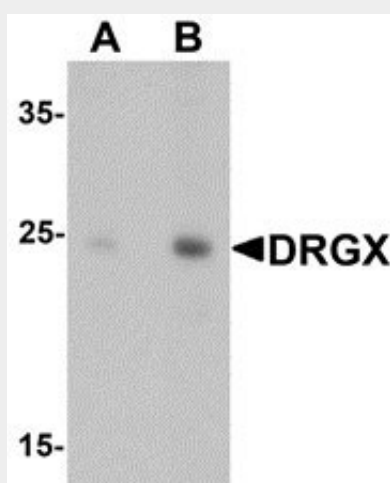
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000255|PROSITE-ProRule:PRU00138}

DRGX Antibody - Protocols

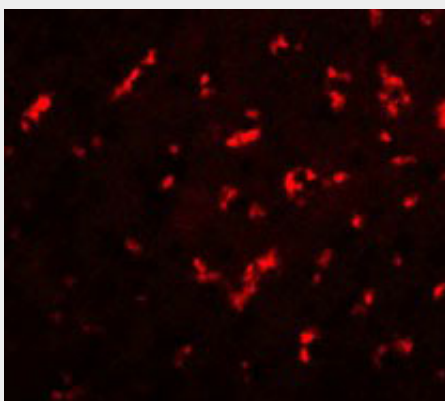
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DRGX Antibody - Images



Western blot analysis of DRGX in rat liver tissue lysate with DRGX antibody at (A) 1 and (B) 2 $\mu\text{g/mL}$.



Immunofluorescence of DRGX in rat liver cells with DRGX antibody at 20 $\mu\text{g/mL}$.

DRGX Antibody - Background

DRGX Antibody: DRGX, also known as DRG11 or PRRXL1, is a paired homeodomain transcription factor, and was initially cloned from a differential hybridization screen aimed at identifying dorsal root ganglia (DRG)-specific genes. DRGX is a key regulator of the differentiation of the spinal cord neuronal circuit dedicated to the processing of nociceptive information. DRGX is also important for the formation of the whisker-related somatosensory maps in the principal sensory nucleus of the trigeminal nerve, thalamus and somatosensory cortex.

DRGX Antibody - References

Saito T, Greenwood A, Sun Q et al. Identification by differential RT-PCR of a novel paired homeodomain protein specifically expressed in sensory neurons and a subset of their CNS targets. Mol. Cell. Neurosci. 1995; 6:280-92.

Chen ZF, Rebelo S, White F et al. The paired homeodomain protein DRG11 is required for the projection of cutaneous sensory afferent fibers to the dorsal spinal cord. Neuron 2001; 31:59-73.

Ding YQ, Yin J, Xu HM, et al. Formation of whisker-related principal sensory nucleus-based lemniscal pathway requires a paired homeodomain transcription factor, Drg11. J. Neurosci. 2003; 23:7246-54

Rebelo S, Lopes C, Lima D, et al. Expression of a Prrxl1 alternative splice variant during the development of the mouse nociceptive system. Int. J. Dev. Biol. 2009; 53:1089-95.