

DRGX Antibody

Catalog # ASC11383

Product Information

Application	WB, IF, E
Primary Accession	A6NNA5
Other Accession	NP_001073989 , 122937484
Reactivity	Human, Mouse, Rat
Host	Chicken
Clonality	Polyclonal
Isotype	IgY
Calculated MW	28672
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	DRGX antibody can be used for detection of DRGX by Western blot at 1 - 2 μ g/mL. Antibody can also be used for immunofluorescence starting at 20 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	644168
Other Names	Dorsal root ganglia homeobox protein, Paired-related homeobox protein-like 1, DRGX, PRRXL1
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.

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}

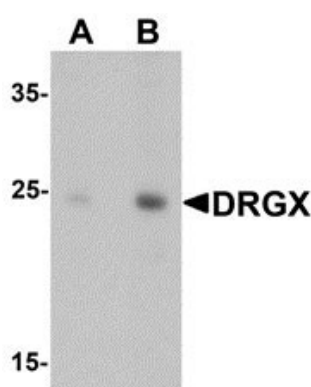
Background

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.

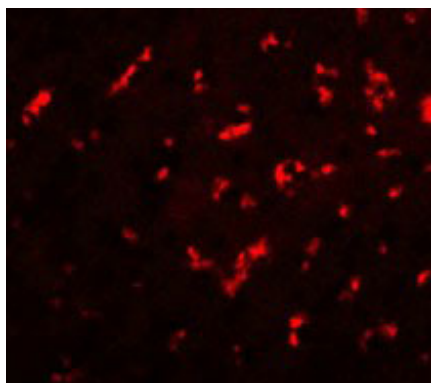
References

- 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.

Images



Western blot analysis of DRGX in rat liver tissue lysate with DRGX antibody at (A) 1 and (B) 2 μ g/mL.



Immunofluorescence of DRGX in rat liver cells with DRGX antibody at 20 μ g/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.