

Product Datasheet

Substance P Antibody (NC1/34) NB100-65219

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-65219

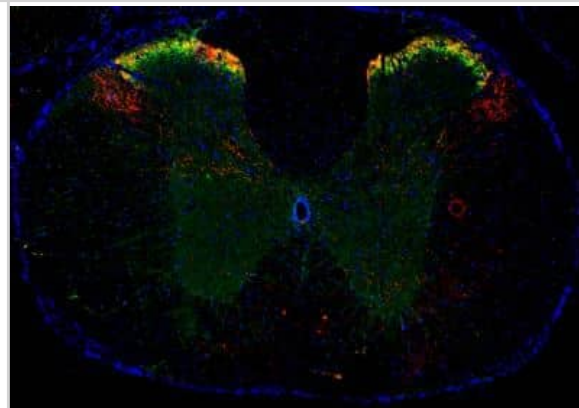
Substance P Antibody (NC1/34)

Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	NC1/34
Preservative	0.09% Sodium Azide
Isotype	IgG2a
Purity	Tissue culture supernatant
Buffer	Tissue culture supernatant
Product Description	
Host	Rat
Gene ID	6863
Gene Symbol	TAC1
Species	Multi-Species
Reactivity Notes	Predicted cross-reactivities: Guinea Pig, Homarus sp., Human, Mammals, Lamprey, Bichir, Beaver, Amphibia, Bovine, Camel, Cancer sp., Calanus sp., Bullfrog, Cowbird, Crustacea, Crayfish, Chicken, Cockroach, Chinchilla, Chinchilla, Porcine, Porcineeon, Rabbit, Mudpuppy, Panilurus sp., Sheep, Rat, Spadefoot toad, Zebrafish
Specificity/Sensitivity	NB100-65219 recognizes the COOH terminal end of substance P, a short polypeptide neurotransmitter that regulates the excitability of dorsal horn nociceptive neurons. It is known to have a role in several physiologic activities such as pain transmission, the vomiting reflex, salivary secretion and smooth muscle contraction. 5% reactivity is observed with eledoisin. It does not react with Leu or Met-enkephalin, somatostatin or beta-endorphin.
Immunogen	Substance P conjugated to bovine serum albumin
Product Application Details	
Applications	Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100 - 1:200, Immunohistochemistry-Frozen 1:100 - 1:200
Application Notes	This product does not require antigen retrieval prior to staining of IHC-P sections. This antibody has been used for the localization of substance P in tissue sections by immunofluorescence and PAP staining in nervous systems of experimental animals and man. Please refer to the Cuello references listed below. It has also been successfully applied in archive post-mortem tissues of the human brain, see Mai and Pioro references. Use in Immunohistochemistry whole mount reported in scientific literature (PMID 24728885)



Images

Immunohistochemistry-Frozen: Substance P Antibody (NC1/34) [NB100-65219] - Opioid R/OPRM1 (green) and Substance P (red) were detected in frozen mouse spinal cord and DRG tissue by fluorescent multiplex IHC. Mu Opioid R/OPRM1 Antibody (NB100-1620), used at 1:100, and Substance P Antibody (NB100-65219), used at 1:50, were applied to the tissue and simultaneously incubated at 4C overnight. Anti-Rabbit Alexa Fluor(R) 488-conjugated secondary antibody and anti-Rat NL557-conjugated secondary antibody (NL013) were applied to the tissue, and simultaneously incubated at room temperature, protected from light for 1 hour. Coverslips were applied to the tissue slide along with mounting media containing DAPI (blue) and imaged using a 4X objective lens.



Publications

Jagadeeshaprasad MG, Govindappa PK, Nelson AM et al. 4-Aminopyridine Induces Nerve Growth Factor to Improve Skin Wound Healing and Tissue Regeneration Biomedicines 2022-07-08 [PMID: 35884953]

Pelayo JC, Veldhuis NA, Eriksson EM et al. Localisation and activation of the neurokinin 1 receptor in the enteric nervous system of the mouse distal colon. Cell Tissue Res. 2014-04-12 [PMID: 24728885] (IHC-Fr, IHC-WhMt, Mouse)



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Products Related to NB100-65219

HAF005	Goat anti-Rat IgG Secondary Antibody [HRP]
F0105B	Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]
NBP2-21947-0.1mg	Rat IgG2a Isotype Control (2A3)
KGE007	Substance P [Biotin]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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