

Product Datasheet

Neurokinin B Antibody NB300-201SS

Unit Size: 0.025 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 6/15/2014 v.20.1

NB300-201SS

Neurokinin B Antibody

Product Information	
Unit Size	0.025 ml
Concentration	1 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS

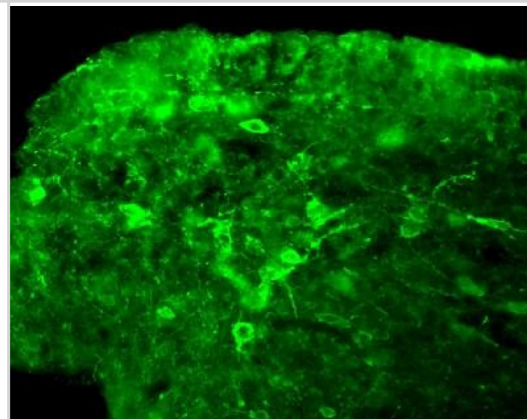
Product Description	
Host	Rabbit
Gene ID	6866
Gene Symbol	TAC3
Species	Human, Mouse, Rat
Species Reactivity	Human, mouse and rat.
Immunogen	A synthetic peptide made to an internal sequence of mouse proNeurokinin B (~93% homology to the rat sequence). [UniProt# P55099]

Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry 1:500-1:1000, Immunohistochemistry-Frozen 1:500-1:1000, Immunohistochemistry-Paraffin 1:500-1:1000, Western Blot 1:100-1:2000
Application Notes	This Neurokinin B antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry on paraffin-embedded and frozen sections and Western Blot. This antibody has been used on human hypothalamus and rat brain sections. In IHC, positive staining of the arcuate nucleus is seen.

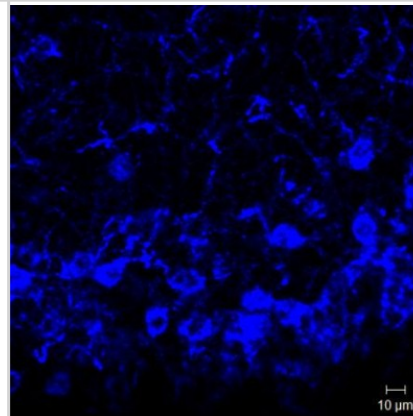


Images

Immunocytochemistry/Immunofluorescence: Neurokinin B Antibody [NB300-201] - Detection of Neurokinin B in rat brain tissue (Alexa 488 stain), using NB 300-201.



Immunocytochemistry/Immunofluorescence: Neurokinin B Antibody [NB300-201] - IF analysis of Neurokinin B in mouse hypothalamus. Image courtesy of an anonymous customer review.



Publications

Cholanian M, Krajewski-Hall SJ, Levine RB et al. Electrophysiology of Arcuate Neurokinin B Neurons in Female Tac2-EGFP Transgenic Mice. *Endocrinology* 2014 Apr 15 [PMID: 24735328] (IHC-Fr, Mouse)

Halasz J, Zelena D, Toth M et al. Substance P neurotransmission and violent aggression: the role of tachykinin NK(1) receptors in the hypothalamic attack area. *Eur J Pharmacol.* 2009 Jun 2 [PMID: 19344710] (IHC-Fr, Rat)

Krajewski SJ, Anderson MJ, Iles-Shih L Morphologic evidence that neurokinin B modulates gonadotropin-releasing hormone secretion via neurokinin 3 receptors in the rat median eminence. *J Comp Neurol.* 2005 Aug 29 [PMID: 16025449] (IHC-Fr, Rat)

Krajewski SJ, Burke MC, Anderson MJ et al. Forebrain projections of arcuate neurokinin B neurons demonstrated by anterograde tract-tracing and monosodium glutamate lesions in the rat *Neuroscience* 2010 Mar 17 [PMID: 20038444] (IHC, ICC/IF, Rat)

Mittelman-Smith MA, Williams H, Krajewski-Hall SJ, Lai J, Ciofi P, McMullen NT, Rance NE. Arcuate Kisspeptin/Neurokinin B/Dynorphin (KNDy) Neurons Mediate the Estrogen Suppression of Gonadotropin Secretion and Body Weight. *Endocrinology*;153(6):2800-12. 2012 Jun. [PMID: 22508514] (IHC, Rat)

Burke MC, Letts PA, Krajewski SJ, Rance NE. Coexpression of dynorphin and neurokinin B immunoreactivity in the rat hypothalamus: Morphologic evidence of interrelated function within the arcuate nucleus. *J Comp Neurol*;498 (5):712-26. 2006 Oct 10. [PMID: 16917850]

Procedures

Protocol specific for Neurokinin B Antibody (NB300-201)

Immunohistochemistry

1. Rats were perfused with 4% paraformaldehyde in 0.1M PBS.
2. The brains were then post-fixed in 4% paraformaldehyde and sucrose protected.
3. The treated sections were blocked in 0.1M Tris buffer containing 0.1% Triton X-100 and 0.25% BSA for 1 hour.
4. Anti-NKB (NB 300-201) was diluted in the blocking buffer and incubated with the sections overnight.
5. A goat anti-rabbit IgG conjugated to Alexa 488 was diluted in the blocking buffer and incubated with the sections overnight.

NOTE: Sections were made on a sledge microtome and stored in cryoprotectant solution at -20 degrees Celsius until ready to use.





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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

