

# Product Datasheet

## Neuromedin UR2/NMUR2 Antibody - BSA Free NBP1-02351

Unit Size: 0.05 mg

Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.

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**NBP1-02351**

Neuromedin UR2/NMUR2 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.05 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Keep as concentrated solution. Aliquot and store at -20C or below. Avoid multiple freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.1% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS

**Product Description**

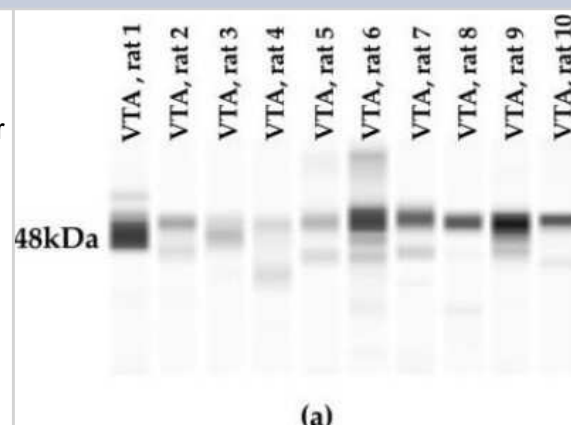
<b>Description</b>	Product can be stored undiluted at 4C for up to 1 month.
<b>Host</b>	Rabbit
<b>Gene ID</b>	56923
<b>Gene Symbol</b>	NMUR2
<b>Species</b>	Human, Rat
<b>Reactivity Notes</b>	Rat reactivity reported in scientific literature (PMID: 27105831). Predicted cross-reactivity based on sequence identity: Gorilla (100%), Gibbon (100%), Marmoset (94%).
<b>Specificity/Sensitivity</b>	Human NMUR2. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
<b>Immunogen</b>	Synthetic 17 amino acid peptide from N-terminal extracellular domain of human Neuromedin UR2/NMUR2.

**Product Application Details**

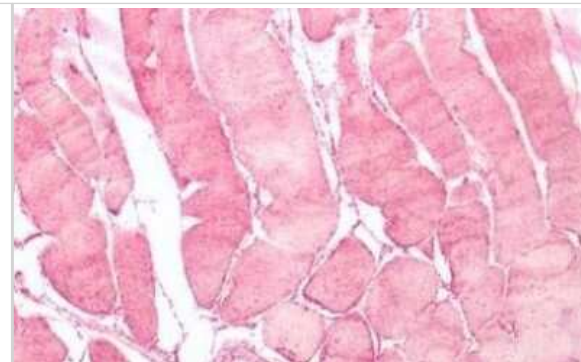
<b>Applications</b>	Western Blot, Electron Microscopy, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot, Immunohistochemistry 5 - 10 ug/ml, Immunohistochemistry-Paraffin 5-10 ug/ml, Immunohistochemistry-Frozen, Electron Microscopy
<b>Application Notes</b>	Use in IHC-Frozen and Electron Microscopy reported in scientific literature (PMID 27105831).

**Images**

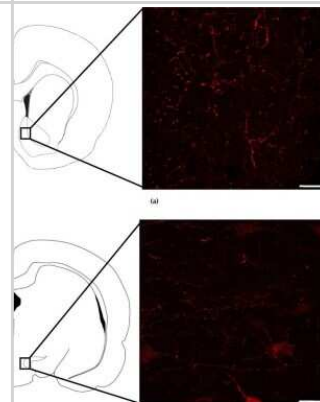
Western Blot: Neuromedin UR2/NMUR2 Antibody - BSA Free [NBP1-02351] - Representative Western blot image for NMUR2 synaptosomal protein from VTA samples. Image collected and cropped by CiteAb from the following publication (mdpi.com/2072-6643/11/2/327), licensed under a CC-BY license.



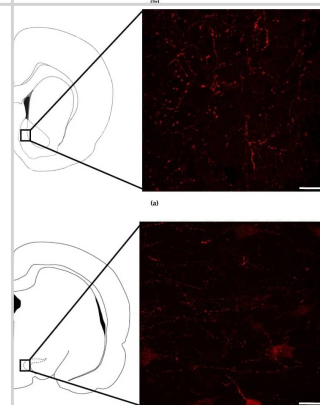
Immunohistochemistry-Paraffin: Neuromedin UR2/NMUR2 Antibody - BSA Free [NBP1-02351] - Human Skeletal Muscle: Formalin-Fixed, Paraffin-Embedded (FFPE)



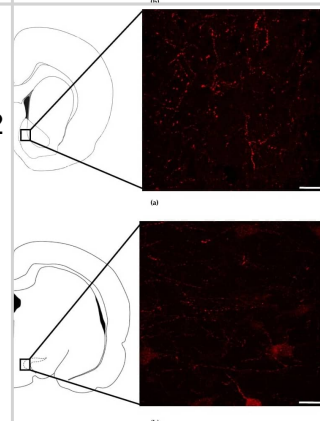
Immunohistochemistry: Neuromedin UR2/NMUR2 Antibody - BSA Free [NBP1-02351] - Neuropeptide receptor neuromedin U receptor 2 (NMUR2) immunostaining in the nucleus accumbens (NAc) and the ventral tegmental area (VTA). (a) Representative image of NMUR2 immunostaining in the NAc (bregma +1.92); (b) Representative image of NMUR2 immunostaining in the VTA (bregma -4.80). Images were acquired from the regions indicated at in confocal mode, scale bar = 25  $\mu$ m. Image collected and cropped by CiteAb from the following publication ([mdpi.com/2072-6643/11/2/327](https://mdpi.com/2072-6643/11/2/327)), licensed under a CC-BY license.



Neuropeptide receptor neuromedin U receptor 2 (NMUR2) immunostaining in the nucleus accumbens (NAc) and the ventral tegmental area (VTA). (a) Representative image of NMUR2 immunostaining in the NAc (bregma +1.92); (b) Representative image of NMUR2 immunostaining in the VTA (bregma -4.80). Images were acquired from the regions indicated at in confocal mode, scale bar = 25  $\mu$ m.



Immunocytochemistry/ Immunofluorescence: Neuromedin UR2/NMUR2 Antibody - BSA Free [NBP1-02351] - Neuropeptide receptor neuromedin U receptor 2 (NMUR2) immunostaining in the nucleus accumbens (NAc) & the ventral tegmental area (VTA). (a) Representative image of NMUR2 immunostaining in the NAc (bregma +1.92); (b) Representative image of NMUR2 immunostaining in the VTA (bregma -4.80). Images were acquired from the regions indicated at in confocal mode, scale bar = 25  $\mu$ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30717427>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Aneta Piwowarczyk-Nowak, Artur Pałasz, Aleksandra Suszka-Świtek, Iwona Błaszczuk, Katarzyna Bogus, Barbara Łasut-Szyska, Marek Krzystanek, John J. Worthington, Marco Scarselli Effect of Escitalopram on the Number of DCX-Positive Cells and NMUR2 Receptor Expression in the Rat Hippocampus under the Condition of NPSR Receptor Blockade Pharmaceuticals 2022-05-20 [PMID: 35631458]

Piwowarczyk-Nowak A, Patasz A, Bogus K et al. Modulatory effect of long-term treatment with escitalopram and clonazepam on the expression of anxiety-related neuropeptides: neuromedin U, neuropeptide S and their receptors in the rat brain Molecular biology reports 2022-06-11 [PMID: 35690686]

Sasaki-Hamada S, Maeno Y, Yabe M, Ishibashi H Neuromedin U modulates neuronal excitability in rat hippocampal slices Neuropeptides 2021-07-06 [PMID: 34243110] (IF/IHC)

Smith AE, Kasper JM, et al. Binge-Type Eating in Rats is Facilitated by Neuromedin U Receptor 2 in the Nucleus Accumbens and Ventral Tegmental Area Nutrients 2019-02-02 [PMID: 30717427] (IHC-Fr, Rat)

Kasper JM, Smith AE, Hommel JD. Cocaine-Evoked Locomotor Activity Negatively Correlates With the Expression of Neuromedin U Receptor 2 in the Nucleus Accumbens. Front Behav Neurosci. 2018-11-13 [PMID: 30483076] (IF/IHC, Rat)

McCue DL, Kasper JM, Hommel JD. Regulation of motivation for food by neuromedin U in the paraventricular nucleus and the dorsal raphe nucleus. Int J Obes (Lond). 2016-11-15 [PMID: 27748746]

Kasper JM, McCue DL, Milton AJ, Szwed A. Gamma-Aminobutyric acidergic projections from the dorsal raphe to the nucleus accumbens are regulated by neuromedin U. Biological Psychiatry. 2016-01-01 [PMID: 27105831] (IHC-Fr, EM, Rat)





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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP3-17281PEP	Neuromedin UR2/NMUR2 Recombinant Protein Antigen

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### **Limitations**

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