Synaptic Systems

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Neurotensin

Cat.No. 418 005; Polyclonal Guinea pig antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Guinea pig serum albumin was added for stabilization. For reconstitution add 50 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: not tested yet **IP**: not tested yet **ICC**: not tested yet **IHC**: 1 : 100 up to 1 : 500 **IHC-P/FFPE**: 1 : 100
Immunogen	Synthetic peptide corresponding to AA 150 to 162 from mouse Neurotensin/neuromedin N (UniProt Id: Q9D3P9)
Reactivity	Reacts with: mouse (Q9D3P9), rat (P20068), human (P30990). Other species not tested yet.
Specificity	The antibody recognizes Neurotensin. It may crossreact to the unprocessed precursor protein.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Neurotensin, also referred to as **NT** or **Nts** is a 13 amino acid neuropeptide that is processed from a precursor protein that also contains the related neuromedin N. It has a highly conserved C-terminal portion (8–13) which is responsible for its biological activity.

Neurotensin is widely distributed throughout the central nervous system. The highest expression levels are seen in the hypothalamus, amygdala and nucleus accumbens. In the periphery, it is produced by endocrine cells (N cells) of the intestine, where it leads to secretion and smooth muscle contraction.

Neurotensin is involved in the regulation of dopamine pathways, in the maintenance of gut structure and function, and in the regulation of fat metabolism.

Neurotensin has been shown to produce a spectrum of pharmacological effects resembling those of antipsychotic drugs, leading to the suggestion that neurotensin may be an endogenous neuroleptic.

Selected General References

Potential roles of neurotensin on cognition in conditions of obese-insulin resistance.
Saiyasit N, Sripetchwandee J, Chattipakorn N, Chattipakorn SC
Neuropeptides (2018) : .

Multitasking with neurotensin in the central nervous system.
Dobner PR
Cellular and molecular life sciences : CMLS (2005) 62(17): 1946-63.

The amino acid sequence of a hypothalamic peptide, neurotensin.
Carraway R, Leeman SE
The Journal of biological chemistry (1975) 250(5): 1907-11.