

## Product datasheet for **AM01289SU-N**

### TAC1 Rat Monoclonal Antibody [Clone ID: NC1/34]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	NC1/34
Applications:	IF, IHC
Recommended Dilution:	<b>Immunohistochemistry on Frozen Sections:</b> 1/100-1/200. <b>Immunohistochemistry on Paraffin Sections:</b> 1/100-1/200 (Pre-treatment is not required). <b>Immunofluorescence:</b> This antibody has been used for the localisation 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.
Reactivity:	Human
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Substance P conjugated to Bovine Serum Albumin.
Specificity:	This antibody recognizes the COOH terminal end of Substance P, a short polypeptide neurotransmitter that regulates the excitability of dorsal horn nociceptive neurons. 5% reactivity is observed with Eledoisin. It does not react with Leu or Met-Enkephalin, Somatostatin or beta-Endorphin.
Formulation:	State: Supernatant State: Liquid Tissue Culture Supernatant containing 0.09% Thiomersal
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tachykinin precursor 1
Database Link:	<a href="#">Entrez Gene 6863 Human P20366</a>



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**Background:**

Substance P (SP) is currently thought to be one of the most important neurotransmitters and neurotransmitters in the brain. It is an undecapeptide belonging to the tachykinin family, which consists of excitatory neuropeptides synthesised in neuronal and glial cells of the human central and peripheral nervous system. Substance P, Neurokinin A, Neuropeptide K, and Neuropeptide gamma are all generated by post-translation cleavage of the precursor Protachykinin-1. Substance P forms the major endogenous ligand for Neurokinin 1 Receptor. The pharmacology of Substance P has been associated with a number of neurological and psychiatric disorders, namely nociception, migraine, asthma, nausea, inflammatory bowel syndrome, urinary incontinence, anxiety and depression. It has also been linked to obesity.

**Synonyms:**

Substance-P

**Protein Families:**

Druggable Genome, Secreted Protein