

## ARG56550 anti-Substance P antibody [NC1/34]

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rat Monoclonal antibody [NC1/34] recognizes Substance P
Tested Reactivity	Hu, Ms, Rat, Rb
Predict Reactivity	CyfsH, Mamm, Pgn
Tested Application	ICC/IF, IHC-Fr, IHC-P
Specificity	This antibody recognizes the COOH-terminal end of substance P. It does not recognize Leu- or Met-enkephalin, somatostatin or beta-endorphin; Cross-reactivity with elvedoisin: 5%. It recognizes Substance P in postmortem tissue of the human brain.
Host	Rat
Clonality	Monoclonal
Clone	NC1/34
Isotype	IgG2a
Target Name	Substance P
Species	Human
Immunogen	Substance P
Conjugation	Un-conjugated
Alternate Names	NKA; NKNA; NPK; TAC2; Neuromedin L; NK2; PPT; Protachykinin-1; Substance K; Hs.2563

### Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-Fr	1:200 - 1:500
	IHC-P	1:200 - 1:500
Application Note	Rabbit samples have been tested on O.C.T. embedded formaldehyde fixed frozen tissue sections only. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Non Purified.
Buffer	Tissue culture supernatant and 0.05% Thimerosal.
Preservative	0.05% Thimerosal
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note**

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	TAC1
Gene Full Name	tachykinin, precursor 1
Background	This gene encodes four products of the tachykinin peptide hormone family, substance P and neurokinin A, as well as the related peptides, neuropeptide K and neuropeptide gamma. These hormones are thought to function as neurotransmitters which interact with nerve receptors and smooth muscle cells. They are known to induce behavioral responses and function as vasodilators and secretagogues. Substance P is an antimicrobial peptide with antibacterial and antifungal properties. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2014]
Function	Tachykinins are active peptides which excite neurons, evoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) many smooth muscles. [UniProt]
Calculated Mw	15 kDa
PTM	The substance P form is cleaved at Pro-59 by the prolyl endopeptidase FAP (seprase) activity (in vitro).