TAC1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TAC1, Polyclonal Antibody
Full Product Name	TAC1 Antibody, FITC Conjugated
Product Gene Name	anti-TAC1 antibody
Product Synonym Names	Protachykinin-1 (PPT) [Cleaved into: Substance P; Neurokinin A (NKA) (Neuromedin L) (Substance K); Neuropeptide K (NPK); Neuropeptide gamma; C-terminal-flanking peptide]; TAC1; NKA NKNA TAC2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: TAC1 (MBS7134379) FITC Conjugated Antibody: TAC1 (MBS7134381)
Molecular Weight	129
OMIM	162320
3D Structure	ModBase 3D Structure for P20366
Immunogen	Recombinant Human Protachykinin-1 protein (20-129AA)
Immunogen Species	Human
Conjugate	FITC
Product Categories/Family for anti-TAC1 antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TAC1 antibody	ELISA (EIA)
Related Product Information for anti-TAC1 antibody	MBS7134381 is an antibody targeting TAC1. Also known as TAC1 Antibody, FITC Conjugated. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-TAC1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAC1. It may not necessarily be applicable to this product.

NCBI GI #	135886

NCBI GeneID	6863
NCBI Accession #	P20366.1
UniProt Primary Accession #	P20366
UniProt Secondary Accession #	O60600; O60601; Q00072; Q53GH4; Q549V0; Q549V1; Q549V2; Q6FHM1
UniProt Related Accession #	P20366
NCBI Official Full Name	Protachykinin-1
NCBI Official Synonym Full Names	tachykinin, precursor 1
NCBI Official Symbol	TAC1
NCBI Official Synonym Symbols	NK2; NPK; NKNA; TAC2; Hs.2563
UniProt Protein Name	Protachykinin-1
UniProt Synonym Protein Names	PPTCleaved into the following 5 chains:Substance P; Neurokinin A; NKAAlternative name(s):Neuromedin L; Substance K
Protein Family	Protachykinin
UniProt Gene Name	TAC1
UniProt Synonym Gene Names	NKA; NKNA; TAC2; NKA; NPK
UniProt Entry Name	TKN1_HUMAN
NCBI Protein Information	protachykinin-1; PPT; substance K; substance P; neurokinin 1; neurokinin 2; neurokinin A; neuromedin L; tachykinin 2; neuropeptide K; neurokinin alpha; preprotachykinin; neuropeptide gamma; tachykinin, precursor 1 (substance K, substance P, neurokinin 1
NCBI Summary for TAC1	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]
UniProt Comments for TAC1	TAC1: Tachykinins are active peptides which excite neurons, evoke behavioral responses, are potent vasodilators and secretagogues, and contract (directly or indirectly) many smooth muscles. Belongs to the tachykinin family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 7q21-q22 Cellular Component: extracellular space; cell soma; axon; extracellular region; plasma membrane Molecular Function: protein binding; substance P receptor binding Biological Process: tachykinin signaling pathway; negative regulation of heart rate; insemination; response to hormone stimulus; response to morphine; response to lipopolysaccharide; response to pain; sensory perception of pain; positive regulation of saliva secretion; synaptic transmission; elevation of cytosolic calcium ion concentration; cell-cell signaling; positive regulation of acute inflammatory response; positive regulation of lymphocyte proliferation; neuropeptide signaling pathway; regulation of blood pressure; positive regulation of stress fiber formation; positive regulation of action potential; inflammatory response; associative learning; detection of abiotic stimulus; positive regulation of synaptic transmission, cholinergic; positive regulation of synaptic transmission, GABAergic; positive regulation of ossification; long-term memory
Research Articles on TAC1	**1.** we define a three-gene panel, CDO1, HOXA9, and TAC1, which we subsequently validate in two independent cohorts of primary NSCLC samples

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