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Neurokinin 1 Receptor Recombinant Rabbit mAb

Catalog # AP98642

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	P25103
Other Accession	P25103
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	46251
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Neurokinin 1 Receptor
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS(pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family.
SUBUNIT	Interacts with ARRB1
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene belongs to a gene family of tachykinin receptors. These tachykinin receptors are characterized by interactions with G proteins and contain seven hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin substance P, also referred to as neurokinin 1. The encoded protein is also involved in the mediation of phosphatidylinositol metabolism of substance P. [provided by RefSeq, Sep 2008]

Additional Information

Gene ID	6869
Other Names	NK1R; NKIR; SPR; TAC1R; NK1R_HUMAN; TACR1; NK-1 receptor (NK-1R); Tachykinin receptor 1; NK1R_MOUSE; NK1R_RAT; substance-P receptor; neurokinin receptor 1
Dilution	WB=1:2000-10000,IHC-P=1:200-1000,IHC-F=1:200-1000,IF=1:200-1000,IP=1:50-200,ELISA=1:5000-20000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TACR1

Synonyms	NK1R, TAC1R
Function	Receptor for the tachykinin substance P, also able to bind and respond to tachynins neurokinin A/substance K and neurokinin B/neuromedin-K (PubMed:1718267, PubMed:15452552). The rank order of affinity of this receptor to tachykinins is: substance P > neurokinin A/substance K > neurokinin B/neuromedin-K (PubMed:1718267). Substance P binding to its receptor triggers G protein-coupled receptor signaling via activation of phosphatidylinositol hydrolysis by phospholipase C. Substance P binding also triggers signaling via activation of adenylate cyclase activity which results in increased intracellular levels of cyclic AMP (cAMP) (By similarity).
Cellular Location	Cell membrane; Multi-pass membrane protein. Early endosome {ECO:0000250|UniProtKB:P14600}. Note=After signaling cascade initiation, substance P binding results in receptor internalization and localization to early endosomes, followed by receptor recycling to the cell surface. {ECO:0000250|UniProtKB:P14600}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.