10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Neurokinin 1 Receptor Rabbit mAb

Catalog # AP75802

Product Information

Application	WB, IP
Primary Accession	P25103
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	46251

Additional Information

Gene ID	6869
Other Names	TACR1
Dilution	WB~~1:1000-1:5000 IP~~1:50-1:100
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

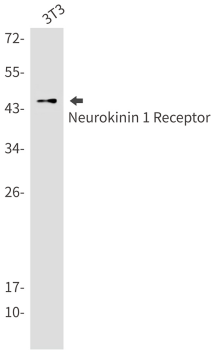
Name	TACR1
Synonyms	NK1R, TAC1R
Function	Receptor for the tachykinin substance P, also able to bind and respond to tachynins neurokinin A/substance K and neurokinin B/neuromedin-K (PubMed:1718267, PubMed:15452552). The rank order of affinity of this receptor to tachykinins is: substance P > neurokinin 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}

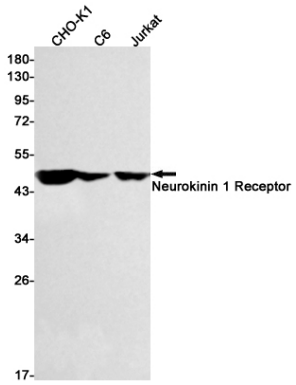
Background

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]

Images



Western blot analysis of Neurokinin 1 Receptor in 3T3 lysates using Neurokinin 1 Receptor antibody.



Western blot analysis of Neurokinin 1 Receptor in CHO-K1, C6, Jurkat lysates using Neurokinin 1 Receptor antibody.