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NK-1R Polyclonal Antibody

Catalog # AP71314

Product Information

Application	WB, IF, ICC, E
Primary Accession	P25103
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46251

Additional Information

Gene ID	6869
Other Names	TACR1; NK1R; TAC1R; Substance-P receptor; SPR; NK-1 receptor; NK-1R; Tachykinin receptor 1
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

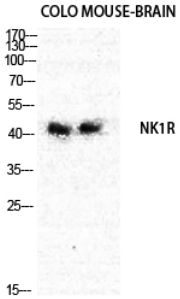
Name	TACR1
Synonyms	NK1R, TAC1R
Function	Receptor for the tachykinin substance P, also able to bind and respond to tachynins neurokinin A/substance K and neurokinin B/neuromedin-K (PubMed:1718267, PubMed:15452552). The rank order of affinity of this receptor to tachykinins is: substance P > neurokinin 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 is a receptor for the tachykinin neuropeptide substance P. It is probably associated with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of affinity of this receptor to tachykinins is: substance P > substance K > neuromedin-K.

Images



Western Blot analysis of MOUSE-BRAIN COLO cells using NK-1R Polyclonal Antibody diluted at 1：1000

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