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

Neurokinin A Receptor Rabbit pAb

Neurokinin A Receptor Rabbit pAb
Catalog # AP54183

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P21452
Reactivity	Rat
Predicted	Pig, Human, Mouse, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44442
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NK2R
Epitope Specificity	223-300/398
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
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 family of genes that function as receptors for tachykinins. Receptor affinities are specified by variations in the 5'-end of the sequence. The receptors belonging to this family are characterized by interactions with G proteins and 7 hydrophobic transmembrane regions. This gene encodes the receptor for the tachykinin neuropeptide substance K, also referred to as neurokinin A. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	6865
Other Names	Substance-K receptor, SKR, NK-2 receptor, NK-2R, Neurokinin A receptor, Tachykinin receptor 2, TACR2, NK2R, NKNAR, TAC2R
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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

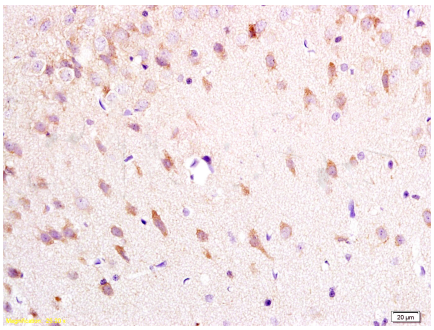
Name	TACR2

Synonyms	NK2R, NKNAR, TAC2R
Function	This is a receptor for the tachykinin neuropeptide substance K (neurokinin A) (PubMed:1659297, PubMed:1848773). Is also able to bind and respond to tachynins substance P and neurokinin B/neuromedin-K (By similarity). The rank order of affinity of this receptor to tachykinins is: substance K > neuromedin-K > substance P (By similarity). Substance K binding to its receptor triggers G protein-coupled receptor signaling via activation of G(q) and phosphatidylinositol hydrolysis by phospholipase C (PubMed:7957923, PubMed:35882833). Substance K 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

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Images



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-NK-2R Polyclonal Antibody, Unconjugated(AP54183) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining