

# Anti-Tachykinin Receptor 1 Antibody

Rabbit polyclonal antibody to Tachykinin Receptor 1  
Catalog # AP60400

## Product Information

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<b>Application</b>	WB, IF/IC
<b>Primary Accession</b>	<a href="#">P25103</a>
<b>Other Accession</b>	<a href="#">P30548</a>
<b>Reactivity</b>	Human, Mouse, Rat, Chicken, Drosophila
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	46251

## Additional Information

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<b>Gene ID</b>	6869
<b>Other Names</b>	NK1R; TAC1R; Substance-P receptor; SPR; NK-1 receptor; NK-1R; Tachykinin receptor 1
<b>Target/Specificity</b>	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Tachykinin Receptor 1. The exact sequence is proprietary.
<b>Dilution</b>	WB~~WB (1/500 - 1/1000), IF/IC (1/100 - 1/500) IF/IC~~N/A
<b>Format</b>	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
<b>Storage</b>	Store at -20 °C. Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	TACR1
<b>Synonyms</b>	NK1R, TAC1R
<b>Function</b>	<p>Receptor for the tachykinin substance P, also able to bind and respond to tachynins neurokinin A/substance K and neurokinin B/neuromedin-K (PubMed:<a href="#">1718267</a>, PubMed:<a href="#">15452552</a>). The rank order of affinity of this receptor to tachykinins is: substance P &gt; neurokinin A/substance K &gt; neurokinin B/neuromedin-K (PubMed:<a href="#">1718267</a>). 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).</p> <p>Cell membrane; Multi-pass membrane protein. Early endosome</p>

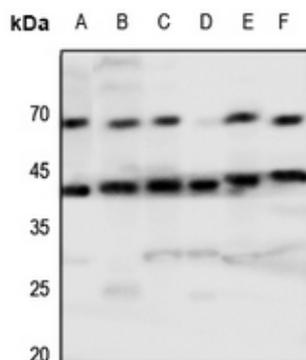
## Cellular Location

{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}

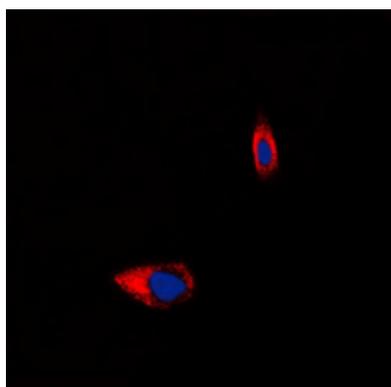
## Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Tachykinin Receptor 1. The exact sequence is proprietary.

## Images



Western blot analysis of Tachykinin Receptor 1 expression in HEK293T (A), A2780 (B), mouse spleen (C), mouse kidney (D), rat spleen (E), rat kidney (F) whole cell lysates.



Immunofluorescent analysis of Tachykinin Receptor 1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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