

**DATASHEET**

**Substance P Rabbit Polyclonal Antibody**

CAT. NO. APA11844

**KEY FEATURES**

Target	Substance P	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at-20°C

**BACKGROUND**

Is a ligand for TACR1, and triggers G protein-coupled receptor signaling via activation of phosphatidylinositol hydrolysis by phospholipase C. Substance P binding to TACR1 also triggers signaling via activation of adenylate cyclase activity which results in increased intracellular levels of cyclic AMP (cAMP) . Is also a TACR3 agonist with low receptor affinity . Is also a TACR3 agonist with low receptor affinity . Basic secretagogue neuropeptide released from the terminals of specific sensory nerves . Acts as a ligand for MRGPRX2 receptor in mast cells, initiating a signaling that mediates neurogenic inflammation and pain . Neurogenic inflammation includes mast cell activation, recruitment of immune cells and release of inflammatory mediators, such as cytokines and chemokines .

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

Description	Rabbit polyclonal antibody to Substance P
Specificity	Recognizes endogenous levels of Substance P protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Substance P. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 15 kD; Observed: 11, 22, 33, 44 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	NKA; NKNA; TAC2; Protachykinin-1; PPT
Gene Symbol	TAC1
Entrez Gene	6863(Human); 21333(Mouse); 24806(Rat)
SwissProt	P20366(Human); P41539(Mouse); P06767(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

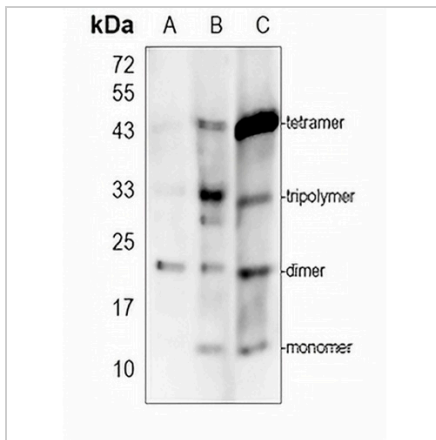
\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**



Western blot analysis of Substance P expression in HeLa (A), MG63 (B), mouse testis (C) whole cell lysates. (Predicted band size: 15 kD; Observed band size: 11, 22, 33, 44 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.