

Product datasheet for **AP05338PU-N**

Kininogen 1 (KNG1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA
Recommended Dilution:	ELISA (1/50-1/500)
Reactivity:	Broad, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Bradykinin peptide conjugated to c.BSA
Specificity:	This antibody is specific for Bradykinin and Lys-Bradykinin (kallidin).
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	kininogen 1
Database Link:	Entrez Gene 3827 Human P01042



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Background:

Bradykinin is a nine amino acid vasoactive peptide which elicits numerous physiologic responses such as vasodilation, smooth muscle spasm and pain. Bradykinin is one of a family of such peptides called the kinins. These kinins are generated by proteolysis of high molecular weight precursors called kininogens upon activation by pathophysiologic conditions such as inflammation or allergy. The physiological actions of these kinins are brought about through their interaction with transmembrane receptors. There are two distinct bradykinin receptor subtypes; B1 and B2, both of which appear to be coupled to G-proteins. The B2 receptor subtype is found in healthy smooth muscle cells and neurons, whereas the B1 receptors are only detected following tissue injury. The B2 receptor is similar in structure to other seven helix G protein coupled receptors. Bradykinin has relatively low affinity for B1 receptors, interacting primarily with the B2 receptor through which several second messenger systems are stimulated, including inositol phospholipid hydrolysis, arachidonic acid metabolism, tyrosine phosphorylation, and membrane depolarization and hyperpolarization.

Synonyms:

Bradykinin, Kallidin-1, Kallidin1, Kallidin-I