

DNAxPAb

Hard-to-Find
Antibody

KNG1 DNAxPAb

Catalog # H00003827-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human KNG1 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVIDAALKKYNSQNSNNQFVLYRITEATKTVGSDTFYSFKYEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRSSTKFSVATQTCQITPAE GPVVTAQYDCLGCVHPISTQSPDLEPILRHGIQYFNNNTQHSSLFMLNEVKRAQRQVVAGLNFRITY SIVQTNCSENFLFLTPDCKSLWNGDTGECTDNAIDQLRIASFQNCDIYPGKDFVQPPTKICVG CPRDIPTNSPELEETLTHITIKLNAENNATFYFKIDNVKKARVQVVAGKKYFIDFVARETTCSKESN EELTESCETKKLGQSLDCNAEVVVPWEKKIPTYVNCQPLGMISLMKRPPGFSPPFRSSRIGEIKEE TTSHLRSCHEYKGRPPKAGAEPASEREVS
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

Gene Info — KNG1

Entrez GeneID [3827](#)

GeneBank Accession# [NM_000893.2](#)

Protein Accession# [NP_000884.1](#)

Gene Name KNG1

Gene Alias BDK, KNG

Gene Description kininogen 1

Omim ID [228960](#)

Gene Ontology [Hyperlink](#)

Gene Summary

High molecular weight kininogen (HMWK) plays an important role in assembly of the plasma kallikrein (see MIM 147910)-kinin system. The KNG1 gene generates both HMWK and low molecular weight kininogen (LMWK) through alternative splicing. Both HMWK and LMWK contain an identical heavy chain consisting of protein domains 1, 2, and 3. However, HMWK contains a 56-kD light chain that consists of domains 5 and 6H, whereas LMWK contains a unique 4-kD light chain that consists of domain 5L. In both proteins, the heavy and light chains are linked by domain 4, which contains the bradykinin (BK) nonapeptide. BK, which is released by plasma kallikrein, is a potent inflammatory mediator that causes vasodilation and enhanced capillary permeability, induces pain, and stimulates production of nitric oxide and prostacyclin (see MIM 601699) from endothelial cells. During vascular damage, BK stimulates smooth muscle proliferation and intimal hypertrophy. Release of BK from HMWK generates a 2-chain HMWK, termed HMWKa, containing the heavy and light chains joined by a disulfide bond (Merkulov et al., 2008 [PubMed 18000168]).[supplied by OMIM]

Other Designations alpha-2-thiol proteinase inhibitor|bradykinin

Pathway

- [Complement and coagulation cascades](#)

Disease

- [Arrhythmias](#)

- [Blood Coagulation Disorders](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Death](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Mental Disorders](#)
- [Obesity](#)
- [Thrombosis](#)
- [Tobacco Use Disorder](#)