KNG1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KNG1, Polyclonal Antibody
Full Product Name	KNG1 (N-Term) Rabbit pAb
Product Gene Name	anti-KNG1 antibody
Product Synonym Names	Kininogen-1; Alpha-2-thiol proteinase inhibitor; Fitzgerald factor; High molecular weight kininogen; HMWK; Williams-Fitzgerald-Flaujeac factor; Kininogen-1 heavy chain; T-kinin; Ile-Ser-Bradykinin; Bradykinin; Kallidin I; Lysyl-bradykinin; Kallidin II; Kininogen-1 light chain; Low molecular weight growth-promoting factor; KNG1; BDK; KNG
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB18408
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	228960
3D Structure	ModBase 3D Structure for P01042
Immunogen	This KNG1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 138-166 amino acids from the N-terminal region of human KNG1.
Cellular Localization	Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KNG1 antibody	Western Blot (WB), Immunohistochemistry (IHC), Flow Cytometry (FC/FACS)
Application Notes for anti-KNG1 antibody	WB: 1:1000 IHC: 1:50-100 FC/FACS: 1:10-50
Related Product Information for anti-KNG1 antibody	MBS8551553 is an antibody targeting KNG1. Also known as KNG1 (N-Term) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-KNG1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KNG1. It may not necessarily be applicable to this product.

NCBI GI #	4504893
NCBI GeneID	3827
NCBI Accession #	NP_000884.1

UniProt Primary Accession #	P01042
UniProt Related Accession #	P01042
GenBank Nucleotide #	NP_000884.1
NCBI Official Full Name	kininogen-1 isoform 2
NCBI Official Synonym Full Names	kininogen 1
NCBI Official Symbol	KNG1
NCBI Official Synonym Symbols	BK; BDK; KNG; HMWK
UniProt Protein Name	Kininogen-1
UniProt Synonym Protein Names	Alpha-2-thiol proteinase inhibitor; Fitzgerald factor; High molecular weight kininogen; HMWK; Williams-Fitzgerald-Flaujeac factorCleaved into the following 6 chains:Kininogen-1 heavy chainT-kinin; Alternative name(s):; Ile-Ser-BradykininBradykinin; Alternative name(s):; Kallidin ILysyl-bradykinin; Alternative name(s):; Kallidin II
Protein Family	Kininogen
UniProt Gene Name	KNG1
UniProt Synonym Gene Names	BDK; KNG; HMWK
UniProt Entry Name	KNG1_HUMAN
NCBI Protein Information	kininogen-1
NCBI Summary for KNG1	This gene uses alternative splicing to generate two different proteins- high molecular weight kininogen (HMWK) and low molecular weight kininogen (LMWK). HMWK is essential for blood coagulation and assembly of the kallikrein-kinin system. Also, bradykinin, a peptide causing numerous physiological effects, is released from HMWK. Bradykinin also functions as an antimicrobial peptide with antibacterial and antifungal activity. In contrast to HMWK, LMWK is not involved in blood coagulation. Three transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Nov 2014]
UniProt Comments for KNG1	KNG1: (1) Kininogens are inhibitors of thiol proteases; (2) HMW-kininogen plays an important role in blood coagulation by helping to position optimally prekallikrein and factor XI next to factor XII; (3) HMW-kininogen inhibits the thrombin- and plasmin- induced aggregation of thrombocytes; (4) the active peptide bradykinin that is released from HMW-kininogen shows a variety of physiological effects: (4A) influence in smooth muscle contraction, (4B) induction of hypotension, (4C) natriuresis and diuresis, (4D) decrease in blood glucose level, (4E) it is a mediator of inflammation and causes (4E1) increase in vascular permeability, (4E2) stimulation of nociceptors (4E3) release of other mediators of inflammation (e.g. prostaglandins), (4F) it has a cardioprotective effect (directly via bradykinin action, indirectly via endothelium-derived relaxing factor action); (5) LMW-kininogen inhibits the aggregation of thrombocytes; (6) LMW- kininogen is in contrast to HMW-kininogen not involved in blood clotting. Defects in KNG1 are the cause of high molecular weight kininogen deficiency (HMWK deficiency). HMWK deficiency is an autosomal recessive coagulation defect. Patients with HWMK deficiency do not have a hemorrhagic tendency, but they exhibit abnormal surface-mediated activation of fibrinolysis. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Secreted; Inhibitor; Secreted, signal peptide; Contractile; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 3q27 Cellular Component: extracellular space; plasma membrane; extracellular region Molecular Function: heparin binding; protein binding; zinc ion binding; cysteine protease inhibitor activity; receptor binding Biological Process: negative regulation of proteolysis; platelet activation; elevation of cytosolic calcium ion concentration; smooth muscle contraction; platelet degranulation; positive regulation of apoptosis; negative regulation of blood coagulation; negative regulation of cell adhesion; blood coagulation; inflammatory response; vasodilation; blood coagulation, intrinsic pathway Disease: High Molecular Weight Kininogen Deficiency

Research Articles on KNG1	**1.** KNG1 was identified as the core gene and lowly expressed in the glioma cells. Overexpression of KNG1 inhibited cell viability and angiogenesis of glioma cells. Overexpression of KNG1 promoted the apoptosis and G1 phase cell cycle arrest of glioma cells.
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