

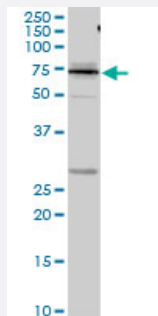
MaxPab®

KNG1 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00003827-D01P

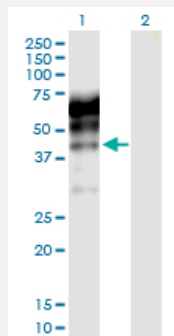
Size 100 ug

Applications



Western Blot (Tissue lysate)

KNG1 MaxPab rabbit polyclonal antibody. Western Blot analysis of KNG1 expression in mouse spleen.



Western Blot (Transfected lysate)

Western Blot analysis of KNG1 expression in transfected 293T cell line ([H00003827-T03](#)) by KNG1 MaxPab polyclonal antibody.

Lane 1: KNG1 transfected lysate(47.90 kDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human KNG1 protein.

Immunogen

KNG1 (NP_000884.1, 1 a.a. ~ 427 a.a) full-length human protein.

Sequence

MKLITILFLCSRLLLSLTQESQSEEDCNDKDLFKAVIDAALKKYNSQNQSNNQFVLYRITEATKTVG
SDTFYSFKYEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRSSTKFSVATQTCQITPAE
GPVVTAQYDCLGCVHPISTQSPDLEPILRHGIQYFNNNTQHSSLFMLNEVKRAQRQVVAGLNFRITY
SIVQTNCSKENFLFLTPDCKSLWNGDTGECTDNAYIDIQLRIASFSSQNCDIYPGKDFVQPPTKICVG
CPRDIPTNSPELEETLTHITKLNAENNATFYFKIDNVKKARVQVVAGKKYIDFVARETTCSKESN
EELTESCETKKLGQSLDCNAEVVVPWEKKIYPTVNCQPLGMISLMKRPPGFSPPFRSSRIGEIKEE
TSHLRSCHEYKGRPPKAGAEPASEREVS

Host	Rabbit
Reactivity	Human, Mouse
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 (Tissue lysate)

KNG1 MaxPab rabbit polyclonal antibody. Western Blot analysis of KNG1 expression in mouse spleen.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of KNG1 expression in transfected 293T cell line ([H00003827-T03](#)) by KNG1 MaxPab polyclonal antibody.

Lane 1: KNG1 transfected lysate(47.90 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — KNG1

Entrez GeneID	3827
GeneBank Accession#	NM_000893
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

Publication Reference

- [Overexpression of the Kininogen-1 inhibits proliferation and induces apoptosis of glioma cells.](#)

Xu J, Fang J, Cheng Z, Fan L, Hu W, Zhou F, Shen H.

Journal of Experimental & Clinical Cancer Research 2018 Aug; 37(1):180.

Application: IHC, WB, WB-Tr, Human, Mouse, U87 cells, Brain

- [Protocols to Assess Coagulation Following In Vitro Infection with Hemorrhagic Fever Viruses.](#)

Tursiella ML, Taylor SL, Schmaljohn CS.

Methods in Molecular Biology (Clifton, N.J.) 2017 Oct; 1604:405.

Application: WB, Human, HUVECs

- [Endothelial Cell Permeability during Hantavirus Infection Involves Factor XII-Dependent Increased Activation of the Kallikrein-Kinin System.](#)

Taylor SL, Wahl-Jensen V, Copeland AM, Jahrling PB, Schmaljohn CS.

PLoS Pathogens 2013 Jul; 9(7):e1003470.

Application: WB, Human, HUVECs

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](#)