

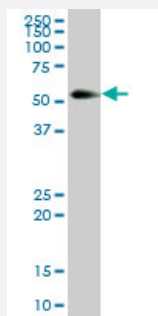
MaxPab®

KNG1 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00003827-B01P

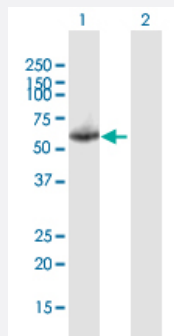
Size 50 ug

Applications



Western Blot (Tissue lysate)

KNG1 MaxPab polyclonal antibody. Western Blot analysis of KNG1 expression in human pancreas.



Western Blot (Transfected lysate)

Western Blot analysis of KNG1 expression in transfected 293T cell line ([H00003827-T01](#)) by KNG1 MaxPab polyclonal antibody.

Lane 1: KNG1 transfected lysate(46.97 kDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse 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

MKLITILFLCSRLLSLTQESQSEEDCNDKDLFKAVIDAALKKYNSQNQSNNQFVLYRITEATKTVG
SDTFYSFKYEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRSSTKFSVATQTCQITPAE
GPVVTAQYDCLGCVHPISTQSPDLEPILRHGIQYFNNNTQHSSLFMLNEVKRAQRQVVAGLNFRITY
SIVQTNCSKENFLFLTPDCKSLWNGDTGECTDNAYIDIQLRIASFQNCDIYPGKDFVQPPTKICVG
CPRDIPTNSPELEETLTHITKLNAENNATFYFKIDNVKKARVQVVAGKKYIDFVARETTCSKESN
EELTESCETKKLGQSLDCNAEVVVPWEKKIYPTVNCQPLGMISLMKRPPPGFSPFRSSRIGEIKEE
TSHLRSCHEYKGRPPKAGAEPASEREVS

Host	Mouse
Reactivity	Human
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 polyclonal antibody. Western Blot analysis of KNG1 expression in human pancreas.

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of KNG1 expression in transfected 293T cell line ([H00003827-T01](#)) by KNG1 MaxPab polyclonal antibody.

Lane 1: KNG1 transfected lysate(46.97 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

- [Patients with ovarian carcinoma excrete different altered levels of urine CD59, kininogen-1 and fragments of inter-alpha-trypsin inhibitor heavy chain H4 and albumin.](#)

Abdullah-Soheimi SS, Lim BK, Hashim OH, Shuib AS.

Proteome Science 2010 Nov; 8:58.

Application: WB, Human, Urine

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](#)