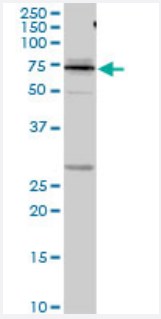
MaxPab®

KNG1 MaxPab rabbit polyclonal antibody (D01)

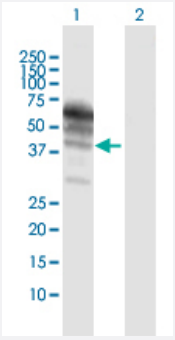
Catalog # H00003827-D01 Size 100 uL

Applications



Western Blot (Tissue lysate)

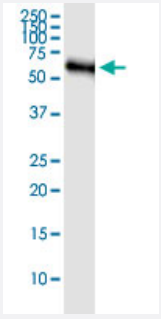
KNG1 MaxPab rabbit polyclonal antibody. Western Blot analysis of KNG1 expression in mouse spleen.



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(47.9 KDa).
Lane 2: Non-transfected lysate.



Immunoprecipitation

Immunoprecipitation of KNG1 transfected lysate using anti-KNG1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with KNG1 purified MaxPab mouse polyclonal antibody (B01P) (H00003827-B01P).

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	MKLITILFLCSRLLLSLTQESQSEEIDCNDKDLFKAVDAALKKYNSQNQSNNQFVLYRITEATKTVG SDTFYSFKYEIKEGDCPVQSGKTWQDCEYKDAAKAATGECTATVGKRSSTKFSVATQTCQITPAE GPVVTAQYDCLGCVHPISTQSPDLEPILRHGIQYFNNNTQHSSLFMLNEVKRAQRQVVAGLNFRITY SIVQTNCSKENFLFLTPDCKSLWNGDTGECTDNAYIDIQLRIASFSQNCDIYPGKDFVQPPTKICVG CPRDIPTNSPELEETLTHTITKLNAENNATFYFKIDNVKKARVQVVAGKKYFIDFVARETTCSKESN EELTESCETKKLGQSLDCNAEVYVVPWEKKIYPTVNCQPLGMISLMKRPPGFSPFRSSRIGEIKEE TTSHLRSCEYKGRPPKAGAEPASEREVS
Host	Rabbit
Reactivity	Human, Mouse
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	No additive
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(47.9 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

- Immunoprecipitation

  Immunoprecipitation of KNG1 transfected lysate using anti-KNG1 MaxPab rabbit polyclonal antibody and Protein A Magnetic Bead, and immunoblotted with KNG1 purified MaxPab mouse polyclonal antibody (B01P) (H00003827-B01P).

  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 kallik rein (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 identic al 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 c ontains the bradykinin (BK) nonapeptide. BK, which is released by plasma kallikrein, is a potent i nflammatory mediator that causes vasodilation and enhanced capillary permeability, induces pain , and stimulates production of nitric oxide and prostacyclin (see MIM 601699) from endothelial cell s. During vascular damage, BK stimulates smooth muscle proliferation and intimal hypertrophy. R elease of BK from HMWK generates a 2-chain HMWK, termed HMWKa, containing the heavy an d 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