

## Product datasheet for **TA308914**

### Kininogen 1 (KNG1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	ICC/IF:1:100-1:1000; IHC:1:100-1:1000; WB:1:500-1:3000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein fragment contain a sequence corresponding to a region within amino acids 1 and 416 of HMW Kininogen
Formulation:	0.1M Tris, 0.1M Glycine, 10% Glycerol (pH7). 0.01% Thimerosal was added as a preservative.
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	48 kDa
Gene Name:	kininogen 1
Database Link:	<a href="#">NP_001095886</a> <a href="#">Entrez Gene 3827 Human</a> <a href="#">P01042</a>



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**Background:**

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]

**Synonyms:**

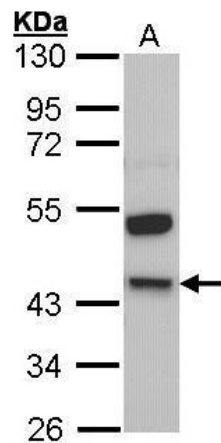
BDK; BK; KNG

**Protein Families:**

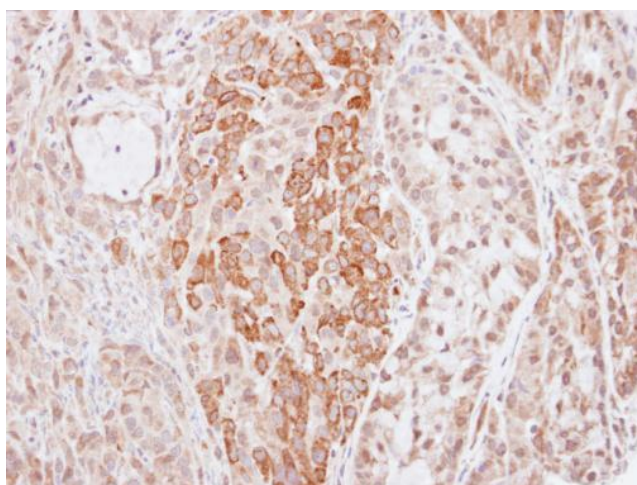
Druggable Genome, Secreted Protein

**Protein Pathways:**

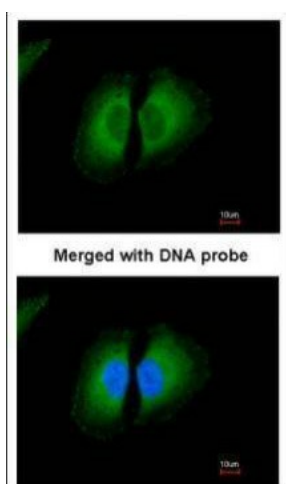
Complement and coagulation cascades

**Product images:**

Sample (30 ug of whole cell lysate). A: Molt-4.  
10% SDS PAGE. TA308914 diluted at 1:1000



Immunohistochemical analysis of paraffin-embedded A549 xenograft, using Kininogen 1 (TA308914) antibody at 1:500 dilution.



Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using Kininogen-1 (TA308914) antibody at 1:200 dilution.