DATASHEET

Kininogen 1 Rabbit Polyclonal Antibody

CAT. NO. ARA5814

KEY FEATURES

Target	Kininogen 1	**Source/Host**	Rabbit
Reactivity	Human, Mouse, Rat	**Clonality**	Polyclonal
Applications	WB,IHC,IF/ICC,ELISA	**Conjugation**	Unconjugated
Isotype	IgG	**Storage**	at -20°C

BACKGROUND

Kininogens are inhibitors of thiol proteases. Kininogen 1 plays important role in Kinin-kallikrein system. This KNG1 gene contains 10 exons and encodes two proteins through alternative splicing: high molecular weight kininogen (HMWK) (72kDa) and low molecular weight kininogen (LMWK) (48kDa) (PMID: 37442062). HMWK is produced by the liver together with prekallikrein. It acts mainly as a cofactor on coagulation and inflammation, and has no intrinsic catalytic activity. LMWK is produced locally by numerous tissues, and secreted together with tissue kallikrein.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:500
IF/ICC	1:10 - 1:100
ELISA	Assay-dependent

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

OVERVIEW

Description	Kininogen 1 Rabbit Polyclonal Antibody for WB, IHC, IF/ICC, ELISA.
Specificity	Recognizes both the high (HMWK) and low (LMWK) molecular weight forms of human Kininogen 1.
Antibody Type	Primary antibody
Immunogen	Recombinant human KNG1 protein (amino acids 20-374) expressed in E. coli with GST tag.
Molecular Weight	Predicted: 72 kDa; Observed: 48 kDa, 72 kDa
Purification	Antigen affinity purification
Isotype	IgG
Form/Buffer	Liquid in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Alternative Names	HMWK, LMWK, Fitzgerald factor, Bradykinin, Ile-Ser-Bradykinin
Gene Symbol	KNG1
Entrez Gene	3827
SwissProt	P01042

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

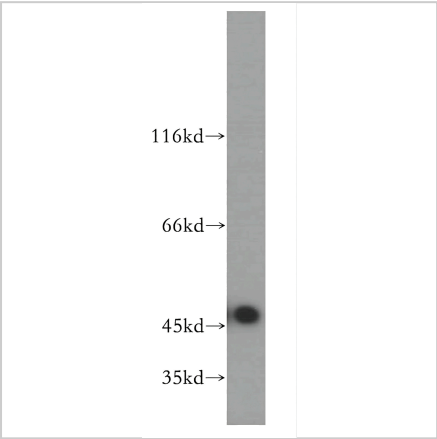
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

DATASHEET

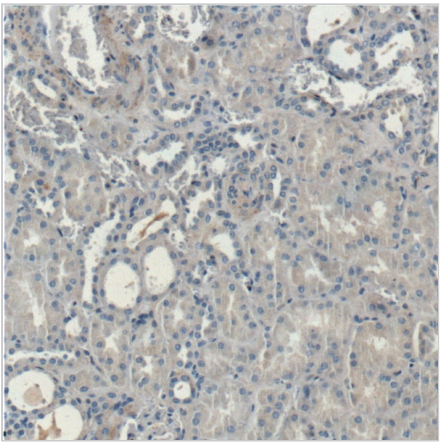
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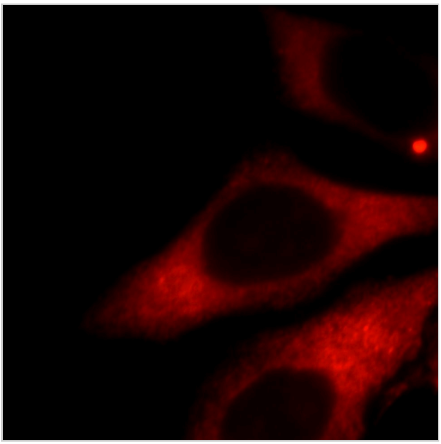
DATA



Western blot analysis of HeLa cells with Kininogen 1 Rabbit Polyclonal Antibody at 1:500 dilution.
Predicted band size: 72 kDa
Observed band size: 48 kDa, 72 kDa



Immunohistochemical analysis of paraffin-embedded human kidney tissue using Kininogen 1 Rabbit Polyclonal Antibody at 1:200 dilution (under 10x lens).



Immunofluorescent analysis of HepG2 cells using Kininogen 1 Rabbit Polyclonal Antibody at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com