2200 Ringwood Ave. San Jose, CA 95131
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Kininogen 1 (KNG1) (AX2054) Rabbit mAb

M0054

Key Features

Host Species
• Rabbit

Reactivity
• Human, Mouse, Rat

Applications
• WB, ELISA

MW
• 44kDa/48kDa/72kDa (Calculated)
• 46kDa (Observed)

Isotype
• IgG

Recommended Dilution Ratios

Application	Dilution
Western Blotting (WB)	1:500-1000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Storage

Storage at	-15°C to -25°C/1 year(Do not lower than -25°C)
Storage buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality	Monoclonal
Clone Number	AX2054
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 545-644 of human Kininogen 1 (KNG1) (NP_001095886.1).
Specificity	The antibody can specifically recognize human Kininogen 1 protein.
Purification	Affinity purification Protein A
Concentration	Product concentration may vary by batch. Please refer to the product COA for details.

Target Information

Gene name	KNG1
Protein Name	Kininogen 1 (KNG1)

Database Link	Organism	Swiss Prot.	Gene ID
	Human	P01042	3827
	Mouse	O08677	16644
	Rat	P08934	25087

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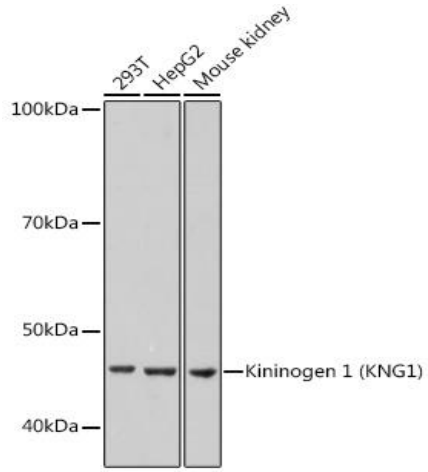
Background

This gene uses alternative splicing to generate two different proteins- high molecular weight kininogen (HMWK) and low molecular weight kininogen (LMWK). HMWK is essential for blood coagulation and assembly of the kallikrein-kinin system. Also, bradykinin, a peptide causing numerous physiological effects, is released from HMWK. Bradykinin also functions as an antimicrobial peptide with antibacterial and antifungal activity. In contrast to HMWK, LMWK is not involved in blood coagulation. Infection with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) reduces or depletes angiotensin converting enzyme 2 (ACE2), which results in an increase in levels of des-Arg(9)-bradykinin, a bioactive metabolite of bradykinin that is associated with lung injury and inflammation. Three transcript variants encoding different isoforms have been found for this gene.

Validation Data



Western blot analysis of various lysates using Kininogen 1 (KNG1) (KNG1) Rabbit mAb (M0054) at 1:1000 dilution.|Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (SA0002) at 1:10000 dilution.|Lysates/proteins: 25 μg per lane.|Blocking buffer: 3% nonfat dry milk in TBST.|Detection: ECL Basic Kit .|Exposure time: 10s.