Mouse Anti-Human Kininogen 1 Monoclonal Antibody

Cat. No. CAB11572MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Monoclonal Antibody to Human Kininogen 1
Species	Human
Source	Mouse
Antigen Description	Kininogen-1, also known as High molecular weight kininogen, Williams-Fitzgerald-Flaujeac factor, Alpha-2-thiol proteinase inhibitor, Fitzgerald factor, KNG1 and BDK, is a secreted protein which contains three cystatin domains. Kininogen-1 / KNG1 is a protein from the blood coagulation system as well as the kinin-kallikrein system. It is a protein that adsorbs to the surface of biomaterials that come in contact with blood. Kininogen-1 / KNG1 circulates throughout the blood and quickly adsorbs to the material surfaces. Kininogen-1 / KNG1 is one of the early participants of the intrinsic pathway of coagulation, together with Factor XII (Hageman factor) and prekallikrein. Kininogen-1 / KNG1 is one of the kininogens, a class of proteins. As with many other coagulation proteins, the protein was initially named after the patients in whom deficiency was first observed. When the clinical data were combined, it turned out that all patients, in fact, had a deficiency of the same protein. Defects in KNG1 are the cause of high molecular weight kininogen deficiency (HMWK deficiency) which is an autosomal recessive coagulation defect. Patients with HWMK deficiency do not have a hemorrhagic tendency, but they exhibit abnormal surface-mediated activation of fibrinolysis.
Specificity	Human KNG1 / Kininogen 1. No cross-reactivity with human cell lysate (293 cell line)

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	in ELISA.
Immunogen	Recombinant Human KNG1 / Kininogen 1 Protein
Isotype	Mouse IgG2b
Cross Reactivity	2C8D9E4
Clone	3D9E10F5
Applications	WB; ELISA
Dilution	Western blot: This antibody can be used at 1-2 μg/mL with the appropriate secondary reagents to detect KNG1-His in WB. Using a DAB detection system, the detection limit for KNG1-His is approximately 4 ng/lane under non-reducing conditions and 2 ng/lane under reducing conditions.Direct ELISA: This antibody can be used at 0.5-1 μg/mL with the appropriate secondary reagents to detect KNG1-His. The detection limit for KNG1-His is approximately 0.0195 ng/well.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human KNG1 / Kininogen 1 (rh KNG1 / Kininogen 1; NP_001095886.1; Gln 19 - Ser 644). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 μm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8 °C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free.Sodium azide is recommended to avoid

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	contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	KNG1 kininogen 1 [Homo sapiens]
Official Symbol	KNG1
Synonyms	KNG1; kininogen 1; BDK,kininogen , KNG; kininogen-1; alpha 2 thiol proteinase inhibitor; bradykinin; HMWK; fitzgerald factor; high molecular weight kininogen; alpha-2-thiol proteinase inhibitor; williams-Fitzgerald-Flaujeac factor; BDK; KNG;
Gene ID	3827
mRNA Refseq	NM_000893
Protein Refseq	NP_000884
MIM	612358
UniProt ID	P01042
Chromosome Location	3q21-qter
Pathway	ACE Inhibitor Pathway, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; G alpha (i)

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	signalling events, organism-specific biosystem;
Function	cysteine-type endopeptidase inhibitor activity; heparin binding; peptidase inhibitor activity; receptor binding; zinc ion binding;

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