High Molecular Weight Kininogen Heavy Chain Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 20002 (clone 2B5)
Format: 200ug Protein G-purified antibody in PBS, pH 7.4.

BACKGROUND

High molecular weight kininogen (HMWK) is a circulating plasma protein which participates in the initiation of blood coagulation, and in the generation of the vasodilator bradykinin via the Kallikrein-kinin system. HMWK is inactive until it either adheres to binding proteins beneath an endothelium disrupted by injury, thereby initiating coagulation, or it binds to intact endothelial cells or platelets for functions other than coagulation. HMWK is an alpha-globulin with six functional domains. It circulates as a single-chain 626 amino acid polypeptide . The heavy chain contains domains 1, 2, and 3; the light chain, domains 5 and 6. Domain 4 links the heavy and light chains.

SPECIFICATION SUMMARY

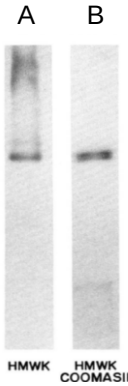
Antigen: Purified human high molecular weight kininogen.
Host Species: Mouse
Antibody Class: IgG1
Accession no.: P01042

SPECIFICITY

This antibody recognizes the common heavy chain (~64kDa) of human HMWK and can neutralize the inhibitory activity of HMWK on platelet calpain.

APPLICATIONS

This antibody may be used in ELISA and Western blots to detect human HMWK light chain. It may also be used in coagulation assays. Enduser should determine optimal antibody concentrations for their applications.



A. Immunoblot with #20002 on purified HMWK (see reference below). B. HMWK Coomasie is SDS-PAGE of purified HMWK stained with Coomassie Blue

DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.

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PRODUCT REFERENCE

1. Schmaier et al. (1987) *Determination of the bifunctional properties of high molecular weight kininogen by studies with monoclonal antibodies directed to each of its chains.* Journal of Biological Chemistry 262: 1405-1411.

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