

Mouse Prekallikrein Heavy Chain Monoclonal Antibody

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CATALOG # AAA47712	HOST Mouse	APPLICATIONS Immunoblot, Western Blot, ELISA
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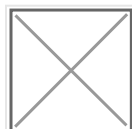
PRODUCT SYNONYMS

Prekallikrein Heavy Chain; Monoclonal Antibody; Prekallikrein Heavy Chain Monoclonal Antibody; Anti-Prekallikrein Heavy Chain; Prekallikrein; anti-Prekallikrein Heavy Chain antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	13G11
Specificity	Anti-Prekallikrein Heavy Chain [MurineMAb recognizes the heavy chain of human prekallikrein.] This antibody specifically recognizes in human plasma two variants (88 kDa and 85 kDa) of prekallikrein and its activation products kallikrein (88 kDa and 85 kDa), the complexes formed by kallikrein with its endogenous inhibitors C1 inhibitor, alpha-2-macroglobulin and antithrombin III, and 45 kDa prekallikrein/kallikrein fragment(s). It also recognizes prekallikrein and its activation products in chimpanzee, rhesus, and baboon plasmas. The epitope for this antibody, located on the prekallikrein/kallikrein heavy chain, is involved in the interaction between prekallikrein and factor XIIa. This antibody inhibits prekallikrein activation in human and rhesus plasmas by approximately 60-80% and 55%, respectively. This antibody does not cross-react with tissue kallikrein.
Purity/Purification	Purified human prekallikrein.
Form/Format	Protein G-purified antibody in PBS, pH 7.4.
Concentration	1.5mg/mL (varies by lot)
Applicable Applications for anti-Prekallikrein Heavy Chain antibody	IB (Immunoblot), ELISA
Preservatives	None
Appearance	Clear Liquid
Preparation and Storage	This antibody is stable for at least one (1) year at -20°C. Store in appropriate aliquots to avoid multiple freeze-thaw cycles.

IMAGES



IB (Immunoblot)

Bands of 85kDa and 88kDa are detected.

ADDITIONAL INFORMATION

Related Product Information for anti-Prekallikrein Heavy Chain antibody	Background: Human prekallikrein, a serine protease zymogen, is present in plasma as two variants, 88kDa and 85kDa, probably due to different carbohydrate content. Approximately 75% of the total prekallikrein in plasma is noncovalently associated with high molecular weight kininogen (HMWK). HMWK mediates binding of prekallikrein to a negatively-charged surface which is required for its optimal activation to kallikrein by activated factor XII. Although kallikrein light and heavy chains can behave as functionally independent domains, the interaction between these two chains is essential for full biologic activity.
Product Categories/Family for anti-Prekallikrein Heavy Chain antibody	Coagulation Factor Monoclonal Antibodies
References	Veloso et al. (1987) Blood 70: 1053- 1062; Veloso et al. (1989) Adv Exp Med Biol 247: 499-505; Veloso D and Colman RW (1991) Thrombosis and Haemostasis 65: 382-388; Veloso et al. (1992) Thrombosis and Haemostasis 68: 526-533; Veloso D (1996) Immunopharmacology 33: 374-376.

NCBI AND UNIPROT INFORMATION

NCBI GeneID	125184
UniProt Accession #	P03952.1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/prekallikrein-heavy-chain-antibody-clone-13g11-immunoblot-elisa/47712>