

# QED Bioscience Inc.

ADVANCED RESEARCH TECHNOLOGIES

## Prekallikrein Heavy Chain Monoclonal Antibody

### ORDERING INFORMATION

**Catalog No.:** 19901 (13G11)

**Size:** 200 ug Protein G-purified antibody in PBS, pH 7.4.

### SPECIFICATION SUMMARY

**Antigen:** Human plasma prekallikrein.

**Host Species:** Mouse

**Antibody Class:** IgG1

**Stabilizers:** None.

**Preservatives:** None. Available on request.

### SPECIFICITY

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.

### APPLICATIONS

This antibody may be used in ELISA and Western blots to identify/quantitate prekallikrein and its activation products in plasmas of humans, chimpanzees, rhesus monkeys, and baboons. Other applications are under investigation.

NOTE: Prekallikrein activation may occur with repeated freezing/thawing (3x or more) of plasma samples obtained from humans or other primates.

### DILUTION INSTRUCTIONS

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

### STORAGE AND STABILITY

These antibodies are stable for at least one (1) year at -20°C to -70°C. Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.

### 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.

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