Factor VIII Monoclonal Antibodies

ORDERING INFORMATION

Catalog No.	Clone No.	MAb Subtype	Size
10101	F8 2.2.9	IgG1	100ug, 500ug
10102	F8 2.2.32	IgG1	100ug, 500ug
10103	F8 5.5.72	IgG1	100ug, 500ug
10104	F8C 27.4	IgG2a	100ug, 500ug

Library Pack No.	100ug/clone
101101	All 4 clones

Format: Protein G-purified antibody in PBS, pH 7.4.

BACKGROUND

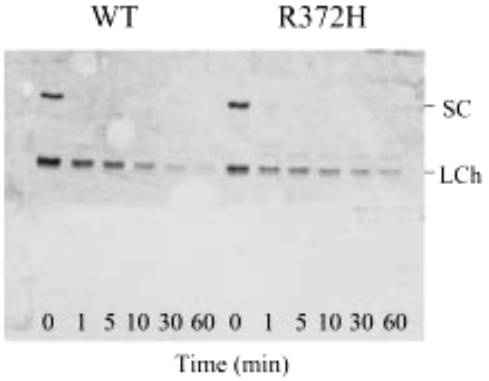
Factor VIII (FVIII) is an essential blood-clotting protein, also known as anti-hemophilic factor (AHF). In humans, factor VIII is encoded by the *F8* gene. Defects in this gene result in hemophilia A, a recessive X-linked coagulation disorder. Factor VIII is produced in liver sinusoidal cells and endothelial cells outside of the liver throughout the body. This protein circulates in the bloodstream in an inactive form, bound to another molecule called von Willebrand factor, until an injury that damages blood vessels occurs. In response to injury, factor VIII is activated and separates from von Willebrand factor. The active protein (sometimes written as factor VIIIa) interacts with another coagulation factor called factor IX. This interaction sets off a chain of additional chemical reactions that form a blood clot.

SPECIFICATION SUMMARY

Antigen: Purified human Factor VIII.
Gene ID: 2157
Accession nos.: NP_000123, P00451
Host Species: Mouse
Specificity: 10101, 10102, and 10103 recognize full-length human Factor VIII (epitopes not determined). 10104 recognizes an epitope at the N-terminal region of the 83kDa light chain of Factor VIII. These antibodies do not cross-react with von Willebrand factor.

APPLICATIONS

These antibodies have been qualified for use in ELISA and immunoblotting to detect human Factor VIII.



#10104 Detection of Factor VIII light chain (LCh) in wild-type (WT) and recombinant (R372H) Factor VIII after reaction with thrombin over time (Nogami et al. 2005 *Blood* 105: 4362-4368).

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DILUTION INSTRUCTIONS

Dilute in PBS or medium that 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 FOR #10104

Takeyama M et al. (2012) *Biochemistry* 51: 820-828.
Nogami K et al. (2005) *Blood* 105: 4362-4368.
Fay PJ et al. (2001) *J Biol Chem* 276: 12434-12439.
Fay PJ (1988) *Arch Biochem Biophys* 262: 525-531.
Fay PJ et al. (1986) *Biochim Biophys Acta* 87: 268-278.

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

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