

## Factor VIII Monoclonal Antibodies

### ORDERING INFORMATION

| Catalog No. | Clone No. | MAb Subtype | Size         | Library Pack No. | 100ug/clone  |
|-------------|-----------|-------------|--------------|------------------|--------------|
| 10101       | F8 2.2.9  | IgG1        | 100ug, 500ug | 101101           | All 4 clones |
| 10102       | F8 2.2.32 | IgG1        | 100ug, 500ug |                  |              |
| 10103       | F8 5.5.72 | IgG1        | 100ug, 500ug |                  |              |
| 10104       | F8C 27.4  | IgG2a       | 100ug, 500ug |                  |              |

**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

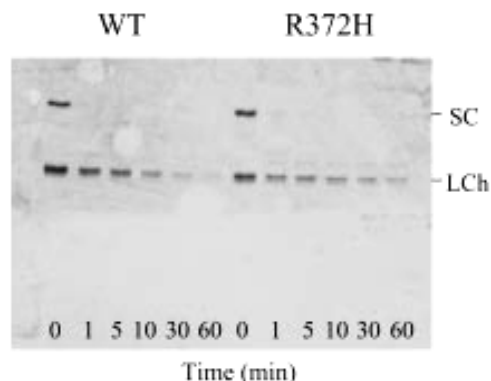
**Accession nos.:** NP\_000123, P00451

**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).

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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## Factor VIII Monoclonal Antibodies

### 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.