

**Anti-Complement component C9 (human)****Mouse monoclonal antibody**Subclass: IgG<sub>1</sub>/k

CAT. NO.

**ABS 004-53**

Clone: C9 53

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**SPECIFICITY** ABS 004-53 is specific for complement factor C9**IMMUNOGEN** Complement factor C9**TESTED APPLICATIONS** ELISA**SPECIES REACTIVITY (POSITIVE)** Human**SPECIES REACTIVITY (NEGATIVE)** Not determined**EPITOPE SPECIFICITY** Not determined

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**PRESENTATION****Content:** Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.**Preparation:** Protein-A purified**Form:** Liquid**Solvent:** 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide**Storage:** 4-8°C without exposure to light. No precautions necessary during handling.

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**APPLICATION** **ELISA:** ABS 004-53 recognizes C9 in human serum diluted 1/50 in Tris buffer (20 mM Tris-base, 1 mM MgCl<sub>2</sub>, 1 mM CaCl<sub>2</sub> and 140 mM NaCl) and incubated for 2 hours at 37°C using a human IgM coated (10 µg/mL overnight at 4°C, blocked with PBS 7.2 + 1% BSA for 1 hour) ELISA plate.**TARGET** Complement factor C9 is a 71kDa single-chain ellipsoid a-globular molecule of 558 amino acids including a leader sequence of 20 amino acids. C9 bind the C5b8 complex on membranes and has a unique property in forming tubular structures containing between 12 and 18 monomers, closely resembling the membrane attack complex (MAC). The primary site of synthesis is hepatocytes, secondary sites are monocytes, fibroblasts and glial cells. The normal level of C9 in plasma is 60 µg/mL, and the level is up regulated from hepatocytes by IFN-γ.**REFERENCES****CONDITIONS**

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