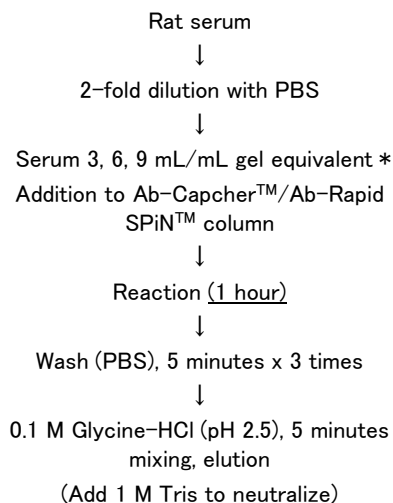
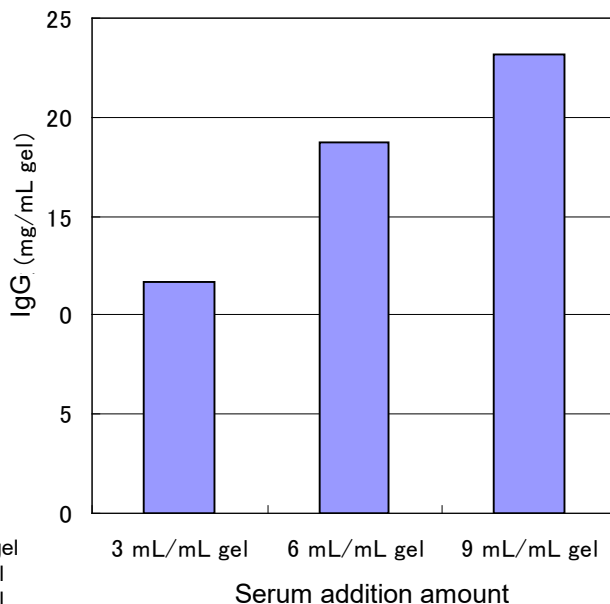


Ab-Rapid SPiN™ IgG purification from rat serum

Operation flow chart



* 3 mL/mL gel: Add 0.6mL of 2-fold diluted serum to 100μL gel
6 mL/mL gel: Add 0.6mL of 2-fold diluted serum to 50μL gel
9 mL/mL gel: Add 0.9mL of 2-fold diluted serum to 50μL gel



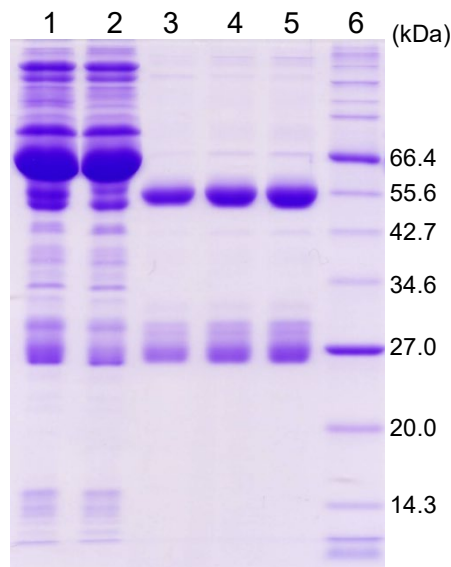
Electrophoresis result

SDS-PAGE

Gel: 12.5% (Tris-Glycine)

Stain: CBB

Lane 1: Serum
Lane 2: Flow through
Lane 3: 3 mL/mL gel eluate
Lane 4: 6 mL/mL gel eluate
Lane 5: 9 mL/mL gel eluate
Lane 6: MW marker



IgG was purified from rat serum using Ab-Rapid SPiN™. Serum from aged rats was used because IgG content in rat (Wister) serum was low in an initial study. Although 11.7 mg IgG/mL gel was purified at 3 mL/mL per gel carrier, it was possible that the IgG content in serum was low. As a result, the amount of purified IgG increased in proportion to the amount of treated serum. Assuming the purified amount of 3 mL/mL gel is 11.7 mg/mL and the serum content is 100%, it will be 23.4 mg/mL to 18.8 mg/mL (80.3%) at 6 mg/mL and 35.1 mg/mL at 9 mg/mL. This means that 23.2 mg/mL (66.1%) was successfully purified. These results indicate that Ab-Rapid SPiN™ can purify at least 20 mg/mL IgG from rat serum. From the results of SDS-PAGE, the purity of rat IgG purified in one step with Ab-Rapid SPiN™ was good. Thus, Ab-Rapid SPiN™ can be used to purify IgG from rat serum with almost the same purity and yield as other animal sera (see Application data No.21).

Protenova Co., Ltd.

〒769-2604

1488 Nishimura, Higashikagawa City, Kagawa Prefecture

TEL 0879-49-0702 / FAX 0879-49-0703

Home page <http://protenova.com>