Ab-Rapid PuRe EX™
One-step mouse monoclonal IgG1 purification

Purification conditions

Column: Ab-Rapid PuRe EX™ (0.5 mL gel/column)
Sample: Mouse ascites 2 mL (dilute 3 times with binding buffer)
Binding buffer: PBS
Elution buffer: 0.1 M Glycine-HCl, pH 2.8
Flow rate: About 2 mL/min (sample addition), about 2 mL/min (elution)
Elution fraction: 1.5 mL
All liquids were manually transferred using a syringe.

A280 result

Elution fraction: 2.46 mg/mL

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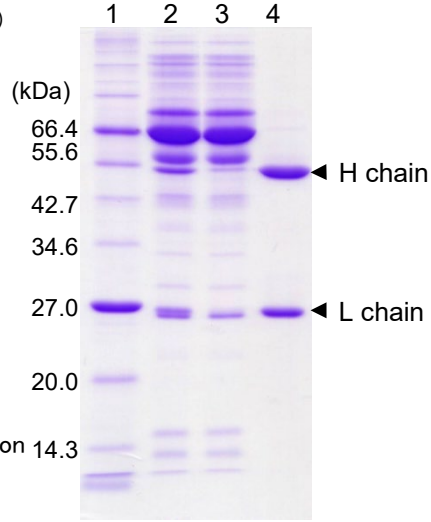
From 2 mL of mouse ascites
3.8 mg mouse IgG1 purified

Endotoxin analysis

Elution fraction: 0.4 EU / mg IgG1

Electrophoresis of elution fraction

SDS-PAGE
Sample: Mouse IgG1 elution fraction
Gel: 12.5% (Tris-Glycine)
Stain: CBB



Lane 1: MW marker
Lane 2: mouse ascites
Lane 3: Pass-through fraction
Lane 4: Elution fraction

IgG1 was purified from mouse ascites using an Ab-Rapid PuRe EX™ column according to a predetermined protocol. The time required from equilibration to elution was within 10 minutes. 3.8 mg of mouse IgG1 could be purified from 2 mL of ascites. In the purity check by SDS-PAGE, IgG1 was detected as a major band. The endotoxin content was 0.4 EU/mg IgG1. Since endotoxin was not detected in the Ab-Rapid PuRe EX™ column, it is considered that endotoxin is derived from mouse ascites used without aseptic operation. Although the operation takes time, it is expected that the IgG binding amount will be increased by further reducing the flow rate.

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