KANEKA KanCap™ G is a newly developed cellulose-based affinity resin designed for efficient capture and purification of antibody fragment formats containing the CH1 region such as Fab and F(ab’)2. It consists of a highly cross linked cellulose matrix and a newly developed Protein G ligand that exhibits an increased binding affinity for the CH1 region of an antibody. It is also an alternative tool to purify full length antibody formats.

- High binding capacity for antibody molecules containing CH1 or Fc region
- High purification
KANEKA KanCap™ G

Ligand development

Kaneka has developed a Protein G mutant that exhibits substantially improved binding affinities to antibody fragment (Fab) containing the CH1 region of an antibody. It has high binding affinity to both Fabs of κ type and λ type.

![Diagram showing binding affinity of protein G mutants](image)

**Wild type Protein G**

- Low affinity

**KANEKA KanCap™ G’s Protein G**

- High affinity

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**KANEKA KanCap™ G Performance**

Excellent purification tool for antibody fragments

**Figure 2** Dynamic binding capacity evaluation.

- KANEKA KanCap™ G
- Competitor A
- Competitor B

<table>
<thead>
<tr>
<th>Binding Capacity (mg/mL-gel)</th>
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- Fab(A)
- Fab(B)
- Fab(C)

**Figure 3** SDS-PAGE analysis of non-reduced Fab samples purified from yeast supernatant


- Light chain monomer

**Disclaimers**: All experimental data are provided “as is”, without any warranty of accuracy or completeness.