Kaneka proposes an antibody purification platform of antibody fragments using Kaneka's new Protein L resin.

KANEKA KanCap™ L is a newly developed cellulose-based Protein L resin designed for capture and purification of a wide range of antibody fragment formats such as scFv, Fab and F(ab')2. It consists of a highly cross linked cellulose matrix and a newly developed Protein L ligand that exhibits an increased affinity to VL region of a κ light chain. It is also an alternative tool to purify full length antibody formats containing a κ light chain which poorly binds to Protein A resins.

Ordering Information

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<th>Product name</th>
<th>Format</th>
<th>Pack size</th>
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<td>5 mL</td>
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www.bioseparation.kaneka.com
Multiple Protein L mutants were screened to select the one with the widest binding spectra and the highest binding affinity to Fabs.

**Figure 1** Affinity comparison of wild type protein L and KANEKA KanCap™ L’s Protein L to different antibody fragments.

**Figure 2** Dynamic and static binding capacity evaluation.

**Figure 3** SDS-PAGE analysis of Fab containing samples purified from E. coli lysate.

- Figure 3M: Protein Molecular Weight Marker, 1. Fab in E. coli lysate, 2. Flow through, 3. Wash, 4. Elution

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**KANEKA KanCap™ L**

**Ligand design**

Excellent purification tool for antibody fragments

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**KANEKA KanCap™ L**

**Performance**

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

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