

Preparation of Gel Pieces

Art. No.: A703

www.dauids-bio.com (Custom Antibodies)

www.dauids-science.de (Lab Material)

- 1 - Introduction

This protocol serves as an essential guide for isolating specific protein bands from an SDS-PAGE gel, particularly when working with a recombinant protein, which may include potential contaminants. The extracted protein can subsequently be used for immunization and antibody production.

The following steps outline the preparation and submission of your protein of interest, ensuring optimal sample integrity for downstream applications. Please adhere to these instructions carefully to guarantee successful extraction and handling.

- 2 - Method

Sample Preparation and Separation

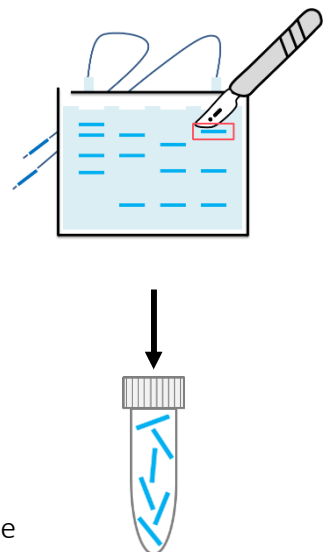
- Perform an SDS-PAGE to separate your protein of interest
- Load multiple bands with your protein of interest (see table below)
- Use your standard procedure or our protocol: [Protocol SDS-PAGE](#)

Cutting the Target Band

- Identify the desired protein band based on the molecular weight marker
- Cut all corresponding gel pieces using a clean scalpel blade

Handling and Storage of Gel Pieces

- Transfer the gel pieces into 1.5 ml or 15 ml tube
- Do **not** add any liquids to the tubes
- Store the samples at 2-8 °C until shipping or at -20 °C for extended storage



Species	Protein Amount needed for the immunization of 1 animal
Rabbit, Chicken	500 – 1000 µg
Mouse	150 – 250 µg
Rat, Guinea pig	200 – 500 µg
Affinity Matrix	Additional 500 – 1000 µg needed

- 3 - Packaging and Shipping

- Label the tubes with the antigen name
- You may place the 1.5-ml tubes containing the gel pieces in a 50 ml tube to protect them during shipping
- You may use cool packs to keep the samples chilled
- Send the samples to the address provided below along with a brief description of the sample
 - Name of the protein or code
 - Protein amount applied on the SDS-gel
 - Protein size (kDa)

Davids Biotechnologie GmbH

Tobias Davids
Roentgenstrasse 3
93055 Regensburg
Germany

If you have any further questions, please feel free to contact us by email info@davids-bio.com

- 4 - Trouble Shooting

Reason	Solution
Coomassie Brilliant Blue	You may not use colloidal Coomassie, as it may influence the antibody development
Antigen Amount	In many cases we can generate antibodies with less protein than suggested
Small Proteins	Please let us know, when the protein is smaller than 15 kDa
Low Amount after Protein Extraction	Ensure that you do not add any solvents to the SDS-gel pieces. The protein of interest can diffuse from the gel pieces, which lowers the yield when we perform the gel extraction.