

# PROTEIN IMMUNISATION SERVICE

(product code CA-14-0070)

**Two leading experts; one seamless service; a thoroughly British experience.**

North East-based CRB, the world's second-oldest peptide manufacturer, has teamed up with long-established antibody producers, Harlan Laboratories UK, to deliver a high-quality, cost-effective, UK polyclonal antibody service.

**Combining our individual, and UK-based, expertises means we can offer:**

- ✓ Premium-quality antibodies
- ✓ Optimum Immunisation Schedules
- ✓ Secure project management
- ✓ Highly reactive customer service
- ✓ Low delivery costs

**Comprising:**

- ✓ Protein antigen provided by customer (1-2mg)
- ✓ Guidance on preferred buffer and concentration
- ✓ Pre-screening of 5 rabbits pre-immune sera
- ✓ Customer validation of best 2 rabbits determined
- ✓ Two rabbit optimised immunisation program

**A partnership that really delivers.**

## Pre-screening:

- 🕒 Week 0 - Receipt of customer own protein and signed protein immunisation guide  
 - 5 pre-immune bleeds available for screening
- 🕒 Week 2 - 2 optimum rabbits chosen Price: **£270**

## Immunisation schedule:

- 🕒 Week 2 - Start of immunisation programme (11 weeks)  
 - Immunisation 1
- 🕒 Week 4 - Immunisation 2
- 🕒 Week 5 - Bleed 1 (5ml)
- 🕒 Week 6 - Immunisation 3
- 🕒 Week 7 - Bleed 2 (5ml)
- 🕒 Week 8 - Immunisation 4
- 🕒 Week 9 - Production bleed 3 (20ml)
- 🕒 Week 10 - Immunisation 5
- 🕒 Week 11 - Production bleed 4 (20ml)
- 🕒 Week 12 - Immunisation 6
- 🕒 Week 13 - Final harvest bleed Price: **£720**

## Additional services:

Code: CA-14-0020  
 Service: Elisa analysis of all bleeds

Price: **£70 per bleed**

Code: CA-14-0030  
 Service: Affinity or protein A purification of final harvest bleed

Price: **£530**

Code: CA-14-0040  
 Service: Charge for each additional rabbit

Price: **£360**

Pre-screening: **£270** + Immunisation: **£720**  
 Total price: **£990**

# PROTEIN IMMUNISATION GUIDE

## Protein

<b>Antigen name</b>	
<b>How is the protein derived?</b>	
<b>HINT:</b> Host, expression system, soluble/inclusion body, refolded protein, purification method (e.g. 6-His, GST or MBP Tag). If you have sub-contracted the expression of the protein, please provide supplier's details and datasheet.	
<b>How is the protein to be supplied?</b>	
<b>HINT:</b> <b>In solution</b> If so, what is the buffer? <b>Lyophilised</b> If so, which buffer should we re-suspend it in? <b>PAGE slice</b>	
<b>Total antigen to be provided (mg)</b>	
As a guideline, we need 1-2mg of protein for a 2-rabbit immunisation programme.	
<b>Buffer</b>	
In general, most buffers and additives are suitable for antibody production apart from detergents, protein solubilising and refolding agents such as urea and guanidinium hydrochloride and organic solvents such as DMSO.	

## Immunisation

<b>Which species do you require and how many?</b>		species		number
<b>HINT:</b> We would typically recommend a minimum of 2 rabbits. Other species include rat, mouse, goat, sheep, chicken.				

## Screening for Antibody

For ELISA analysis, we need an additional 1mg of antigen to coat immunoassay plates. It would be better to provide an untagged protein or differently tagged protein so that we can measure the immune response specifically to the target protein (and not the tag). We can assay tagged protein, however, and additionally perform ELISA screening for antibodies directed against the tag itself as a comparative control.

## Animal Welfare Assurance

I CERTIFY THAT THE ANTIGEN I AM SENDING TO CAMBRIDGE RESEARCH BIOCHEMICALS LIMITED FOR THE PURPOSES OF RAISING A POLYCLONAL ANTIBODY IS FOR RESEARCH PURPOSES ONLY, AND IS NOT DANGEROUS TO PEOPLE OR ANIMALS. FURTHERMORE, THE SUPPLIED ANTIGEN IS NOT A LIVE BACTERIA/VIRUS, ANIMAL/HUMAN PATHOGEN OR TOXIC/HAZARDOUS TO ANIMALS OR PERSONNEL.

<b>Signature</b>		<b>Date</b>	/	/
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## Important Note

Please provide a datasheet with details of protein name, molecular weight (kDa), amount (mg), buffer, concentration (mg/ml) and volume (ml) per tube. Please label tube(s) clearly with volume & concentration or weight.

Fax this completed form to 01642 567181  
OR scan & email to immunology@crbdiscovery.com

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