

# 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: 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 |
|---|--|---------|--|--------|

**HINT:** 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> | / | / |
|------------------|--|-------------|---|---|

## 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 **F 01642 567181**  
**OR** scan & email to [immunology@crbdiscovery.com](mailto:immunology@crbdiscovery.com)

## Immunology Department

10 Belasis Court, Belasis Hall Technology Park, Billingham,  
Cleveland TS23 4AZ United Kingdom [www.crbdiscovery.com](http://www.crbdiscovery.com)  
**T** +44 (0)1642 567180 **E** [immunology@crbdiscovery.com](mailto:immunology@crbdiscovery.com)