

## ANTI-POST TRANSLATIONAL MODIFICATION PROJECT

- An optimised service for Anti-Post-Translational Modification project :  
*Phosphorylation, Methylation, Nitration, Acetylation, Glycosylation...*
- Personalised projects : *Adapted protocols to your needs*
  - Technical support : *Advice from experts in the field of immunology*

## OUR SERVICE

### IMMUNOGEN

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Peptide design

Synthesis of 2 peptides  
One peptide with one modification  
One peptide without modification

Conjugation to carrier protein

### IMMUNIZATIONS

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2 Rabbits - 88D protocol

### ELISA TITRATION

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Each bleed  
Each peptide

### IMMUNOPURIFICATION

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1 column by peptide  
Immunopurification of 5 ml of sera  
Shipment of your columns

This service concerns different modifications such as :

- **Phosphorylations**
- **Methylations**
- **Nitrations**
- **Acetylations**
- **Glycosylations**
- ...

It consists in a classic anti-peptide project with some differences described as below:

## Immunogen

### *Peptide synthesis*

For this service, 2 peptides will be synthesized:

- **1 peptide without modification: <16 AA, 5-10 mg to 70% of purity**
- **1 peptide with one modification: <16 AA, 20-25 mg to 70% of purity**

Nevertheless, you can choose to synthesize peptides with others quantities, purities, sequence length...

### *Conjugation*

Usually we conjugate the peptide to a carrier protein **via a cysteine residue**. If the amino acid sequence of the peptide does not contain a natural cysteine, we add a cysteine to N-ter or C-ter sequence of the peptide.

- **Only the modified peptide is conjugated to a carrier protein**
- **Carrier proteins available: Keyhole Limpet Hemocyanin (KLH), Bovine serum Albumin (BSA) or Ovalbumin (OVA)**

## Immunizations

For this service, 2 rabbits will be immunized with the modified peptide according to our 88 Days protocol.

This protocol also is totally adaptable. At the end of the standard protocol, you can request:

- The final bleed of the animals
- One or several additional bleeds to obtain a greater volume of serum
- To continue immunization in order to try to improve the serum's immuno-reactivity

## ELISA

Each sample will be tested against each peptide(s) by ELISA.

These ELISA tests will allow you to follow the evolution of the immunoreactivity of the rabbits during the immunization.

## Immunopurification

This type of purification will allow to obtain the antibodies specific to the peptides. This will decrease the background during your experiments.

This service consists of :

- **Preparation of 2 immunoaffinity columns: 1 mg of each peptide conjugated to 1 ml of sepharose**
- **Passage in 2 steps:**
  - Firstly, passage of 5 ml of sera against the non-modified peptide sepharose column
  - Secondly, passage of the flow through against the modified peptide sepharose column
- **Quality control by ELISA of the immunopurified antibodies**