



Tagged Antigens for Antibody Development

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Introduction

Tags are used to purify recombinant proteins from a bacterial cell culture expression. Different tags like HIS-tag, GST-tag, MBP-tag or Strep-tags can be used for a purification of the protein. When you use tagged proteins as antigen, the animal will make antibodies against the protein and the tag.

Please indicate before the immunization that your antigen is coupled to a tag.



Method

Anti-tag antibodies

In some cases, the anti-tag antibodies do not disturb your applications. In this case we can use the tagged proteins directly as antigens.

Removal of tag

When the anti-tag antibodies disturb in your assay you may remove the tag prior to immunization.

Immunization and Purification with different tags

When you have the antigen with two different tags we can immunize with Antigen-tag1 and perform the purification with Antigen-tag2. In this case you only receive antibodies against your protein.

Removal of anti-tag antibodies

Especially, when the tag removal is expensive and time consuming, or when the tag is needed for solubility reasons, a removal of the anti-tag antibodies after the immunization is possible. Here we perform a depletion to remove the unwanted antibodies.

Antigenicity of tags

Every tag is different, and some tags have a good antigenicity whereas others don't have. When the tag has a very good antigenicity and the protein only has a poor antigenicity, most of the final antibodies may recognize the tag.