

## Successful protein isolation with MACS® Technology

Based on the well-established MACS® Technology the  $\mu$ MACS™ Tag Isolation Kits allow a fast and specific isolation of recombinant proteins tagged with:

- **c-myc**
- **GFP** (green fluorescent protein)
- **GST** (glutathione-S-transferase)
- **HA** (hemagglutinin)
- **His** (histidine-epitope)

### The advantages of MACS Technology are:

#### Speed—

##### less than 2 hours to pure proteins

Extremely small, superparamagnetic, and non-sedimenting:  $\mu$ MACS MicroBeads are only about 50 nm in diameter and instantly bind to their target molecules. Non-specific binding is minimal. Time-consuming centrifugation and tedious pre-clearing steps are unnecessary; the magnetically labeled sample is ready for specific protein isolation. All binding, washing, and elution steps are performed in a single MACS Column. It is that simple.

#### Sensitivity—

##### even rare proteins can be isolated

Binding of  $\mu$ MACS MicroBeads to their target proteins occurs extremely rapid and efficient, resulting in more captured target protein per sample. This is particularly important when dealing with rare proteins. Direct washing in the column without recurring centrifugation steps significantly reduces loss of target proteins during tube-to-tube transfer of precious samples. The renowned in-column technology even facilitates purification of interacting proteins and fragile molecular complexes.

#### Specificity—

##### minimum background binding

$\mu$ MACS MicroBeads come conjugated with monoclonal antibodies allowing a highly specific purification of target proteins. Unlike plastic surfaces, sepharose, or

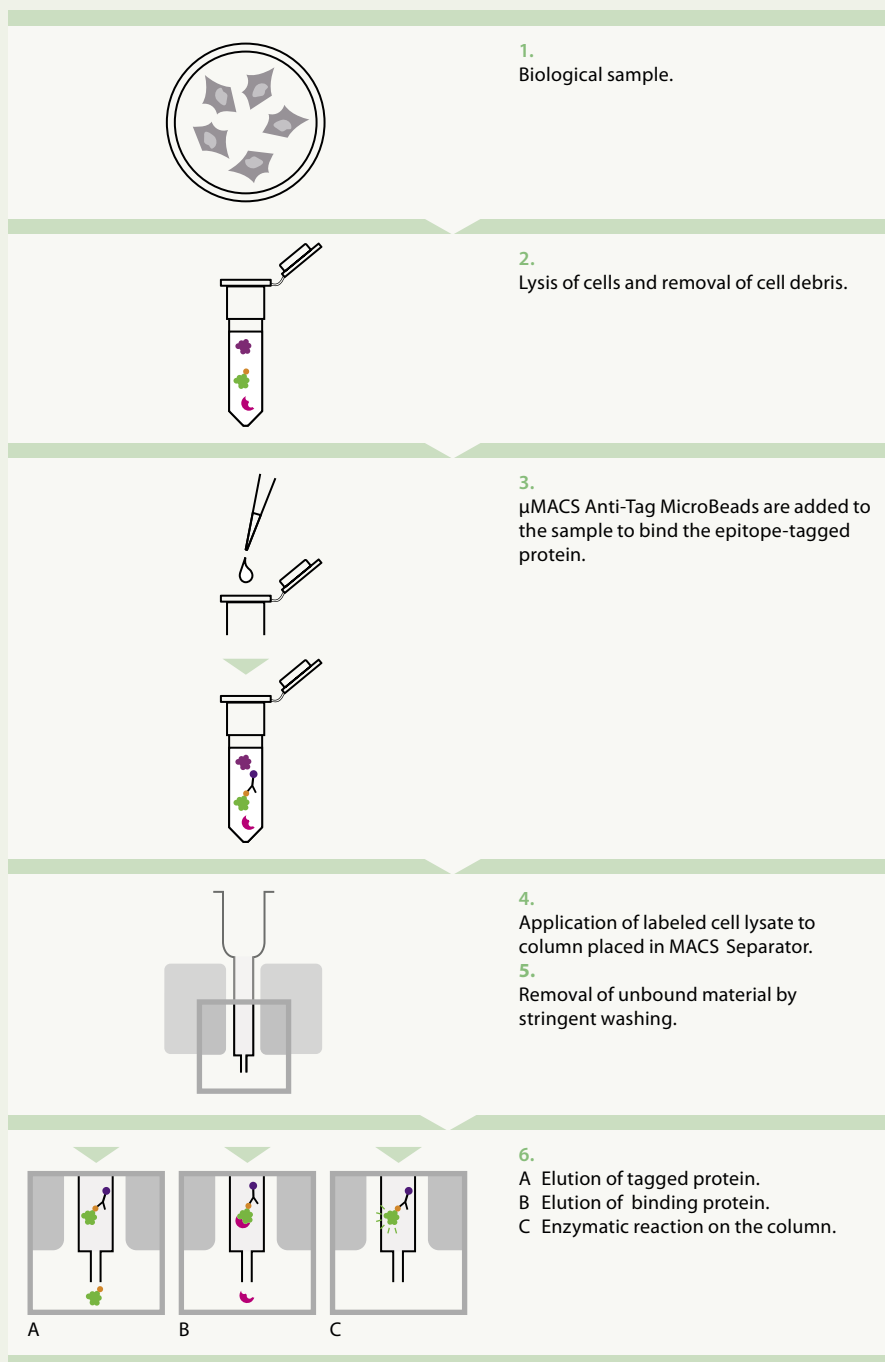


Figure 1: Multiple applications with  $\mu$ MACS™ MicroBeads.

agarose,  $\mu$ MACS MicroBeads strongly reduce non-specific background signals in downstream analysis, such as Western blot or mass spectrometry.

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