

## Immunoprecipitation using Selector Resins

Selector resins are based on high-affinity single-domain antibodies (sdAb) which are covalently immobilized on 4% cross-linked agarose beads. The oriented and selective attachment via a flexible linker guarantees a high accessibility of the sdAbs and largely eliminates batch-to-batch variations. Due to the single-chain nature of sdAbs and their covalent attachment, no "leakage" of light and heavy chains from IgGs is observed during elution with SDS sample buffer.

### Choose from our Selector Portfolio:



GFP Selector



RFP Selector



TagFP Selector



MBP Selector



GST Selector



Selector Accessories

### Key Benefits of Selector Resins:

- High capacity
- Minimal unspecific binding
- No co-elution of heavy and light chain
- Broad buffer compatibility for high flexibility

## GFP Selector for immunoprecipitation of GFP-tagged proteins



GFP Selector Resin

GFP Selector features high affinity and superior capacity for immunoprecipitation experiments of GFP fusion proteins while showing negligible non-specific background. GFP Selector immobilizes a wide range of GFP derivatives.

GFP Selector is compatible with physiological buffers and with high stringency buffers (see Product Data Sheet). GFP Selector provides great freedom to adjust the binding and washing conditions to the experimental needs.

### GFP Selector Specifications

**Specificity:** Recognizes GFP, mEGFP, superfolder GFP, Emerald GFP and most common CFP and YFP variants. It does not cross-react with mCherry, mRFP, dsRed, mTagBFP or their most common derivatives. For more detailed information see data sheet (click on product).

**Capacity:** > 4  $\mu\text{g}$  GFP per  $\mu\text{l}$  of packed beads (i.e. 2  $\mu\text{l}$  of slurry)

**Support:** 4% cross-linked agarose beads

**Formulation:** 50% slurry in 20% ethanol / PBS

**Recommended for:** Immunoprecipitation, Mass Spectrometry

**GFP Selector Kit:** Our GFP Selector Kit contains 500  $\mu\text{l}$  GFP Selector (sufficient for 25 reactions), 400  $\mu\text{l}$  Selector Control (sufficient for 20 reactions) and 2x10 MiniSpin columns.

## RFP Selector for immunoprecipitation of RFP-tagged proteins



RFP Selector Resin

RFP Selector features high affinity and superior capacity for immunoprecipitation experiments of RFP fusion proteins while showing negligible non-specific background. RFP Selector immobilizes a wide range of RFP derivatives including mCherry. For details see our product specifications below.

RFP Selector is compatible with physiological buffers and with high stringency buffers. RFP Selector provides great freedom to adjust the binding and washing conditions to the experimental needs.

### RFP Selector Specifications

**Specificity:** Recognizes most common red fluorescent proteins like mRFP, mCherry, dsRed, tdTomato and mScarlet. Does not cross-react with GFP or mTagBFP/mTagRFP derivatives. For more detailed information see data sheet (click on product).

**Support:** 4% cross-linked agarose beads

**Capacity:** > 4  $\mu\text{g}$  RFP per  $\mu\text{l}$  of packed beads (= 2 $\mu\text{l}$  of slurry)

**Formulation:** 50% slurry in 20% ethanol / PBS

**Recommended for:** Immunoprecipitation, Mass Spectrometry

**RFP Selector Kit:** Our RFP Selector Kit contains 500  $\mu\text{l}$  RFP Selector (sufficient for 25 reactions), 400  $\mu\text{l}$  Selector Control (sufficient for 20 reactions) and 2x10 MiniSpin columns.

## TagFP Selector for immunoprecipitation of mTagBFP-tagged proteins



TagFP Selector Resin

TagFP Selector features high affinity and superior capacity for immunoprecipitation experiments of TagFP fusion proteins while showing negligible non-specific background.

TagFP Selector is compatible with physiological buffers and high stringency buffers. TagFP Selector provides great freedom to adjust the binding and washing conditions to the experimental needs.

### TagFP Selector Specifications

**Specificity:** Recognizes mTagBFP, mTagRFP, mTagRFP657 and mKate. Reactivity against other TagRFP derivatives not analyzed. Does not cross-react with common GFP- or dsRed/RFP derivatives including EBFP. For more detailed information see data sheet (click on product).

**Support:** 4% cross-linked agarose beads

**Capacity:** > 4 µg BFP per µl of packed beads (= 2µl of slurry)

**Formulation:** 50% slurry in 20% ethanol / PBS

**Recommended for:** Immunoprecipitation, Mass Spectrometry

**TagFP Selector Kit:** Our TagFP Selector Kit contains 500 µl TagFP Selector (sufficient for 25 reactions), 400 µl Selector Control (sufficient for 20 reactions) and 2x10 MiniSpin columns.

## MBP Selector for immunoprecipitation of MBP-tagged proteins



MBP Selector Resin

MBP Selector features high affinity and superior capacity for immunoprecipitation experiments of MBP fusion proteins while showing negligible non-specific background.

MBP Selector is compatible with physiological buffers and high stringency buffers. MBP Selector provides great freedom to adjust the binding and washing conditions to the experimental needs.

### **MBP Selector Specifications**

Specificity: Recognizes *E.coli* maltose-binding protein (MBP)

Support: 4% cross-linked agarose beads

Capacity: > 2.5  $\mu\text{g}$  MBP per  $\mu\text{l}$  of packed beads (i.e. 2  $\mu\text{l}$  of slurry)

Formulation: 50% slurry in 20% ethanol / PBS

Recommended for: Immunoprecipitation, Mass Spectrometry

MBP Selector Kit: Our MBP Selector Kit contains 500  $\mu\text{l}$  MBP Selector (sufficient for 25 reactions), 400  $\mu\text{l}$  Selector Control (sufficient for 20 reactions) and 2x10 MiniSpin columns.

## GST Selector for immunoprecipitation of GST-tagged proteins



GST Selector Resin

GST Selector features high affinity and superior capacity for immunoprecipitation experiments of GST fusion proteins while showing negligible non-specific background.

GST Selector is compatible with physiological buffers and high stringency buffers. GST Selector provides great freedom to adjust the binding and washing conditions to the experimental needs.

### GST Selector Specifications

Specificity: Recognizes *Schistosoma japonicum* Glutathione S-transferase (GST)

Support: 4% cross-linked agarose beads

Capacity: > 4 µg GST per µl of packed beads (i.e. 2 µl of slurry)

Formulation: 50% slurry in 20% ethanol / PBS

Recommended for: Immunoprecipitation, Mass Spectrometry

GST Selector Kit: Our GST Selector Kit contains 500 µl GST Selector (sufficient for 25 reactions), 400 µl Selector Control (sufficient for 20 reactions) and 2x10 MiniSpin columns.