

# Product datasheet

## protag-HiPur TagFP Agarose Beads

### Short overview

<b>Cat. No.</b>	89300L
<b>Quantity</b>	2 ml

### Product description

<b>Host</b>	Llama/alpaca
<b>Antibody Type</b>	Recombinant, produced in E.coli
<b>Isotype</b>	Single-domain antibody
<b>Clone</b>	1H7
<b>Immunogen</b>	TagFP
<b>Formulation</b>	50% slurry in PBS containing 20% Ethanol
<b>Capacity</b>	> 4 µg mTagBFP per µl of packed beads
<b>Coating</b>	sdAb anti-TagFP clone 1H7
<b>Support</b>	4% cross-linked agarose, bead size 50-150 µm
<b>Buffer compatibility</b>	<ul style="list-style-type: none"> <li>- Common buffer substances at pH 5 to 9</li> <li>- 2% Triton X-100, 1% Tween-20, 1% NP-40, 1% CHAPS, 1% Deoxycholate, 0.1% SDS</li> <li>- 4 M NaCl, 2 M KCl, 1 M MgCl<sub>2</sub>, 100 mM EDTA</li> <li>- 4 M urea</li> <li>- 10 mM DTT, 10 mM 2-Mercaptoethanol</li> <li>- RNase A, DNase I, Benzonase, protease inhibitors</li> </ul>
<b>Purification</b>	Affinity chromatography
<b>Storage</b>	2-8°C
<b>Intended use</b>	Research use only
<b>Application</b>	IP
<b>Reactivity</b>	mKate/mKate2, mTagBFP, mTagRFP, mTagRFP657
<b>No reactivity</b>	Dendra2, Dronpa, tdEOS, mEOS3.2, mRuby3, mTFP, GFP, dsRed or their most common derivatives

### Applications

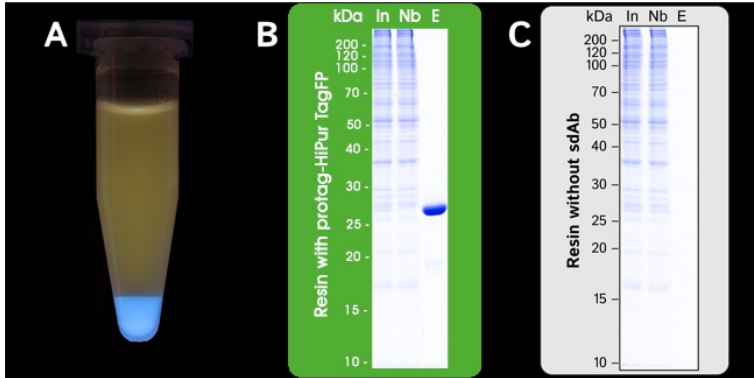
<b>Immunoprecipitation (IP)</b>	yes
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### Background

protag-HiPur TagFP Agarose Beads are based on a high-affinity single-domain antibodies (sdAb) that are covalently immobilized on 4% cross-linked agarose beads. The sdAbs are attached via a flexible linker which 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. protag-HiPur TagFP Agarose Beads thus feature high affinity and superior capacity for TagFP fusion proteins while showing

negligible non-specific background. protag-HiPur TagFP Agarose Beads immobilize a wide range of TagFP derivatives, such as mTagBFP, mTagRFP, mTagRFP657 and mKate. Reactivity against other TagRFP derivatives is not analyzed. It does not cross-react with common GFP- or dsRed/RFP derivatives including EBFP. protag-HiPur GFP Agarose Beads are compatible not only with physiological buffers but also with high stringency buffers. With protag-HiPur TagFP Agarose Beads the binding and washing conditions can be adjusted to the experimental needs.

## Product images



A) Pull-down of mTagBFP from a mixture of GFP, mCherry and mTagBFP. B) IP of mTagBFP from HeLa lysate. In/Ft: 1/1000 of input and non-bound material. E: Eluate from 1 µl of beads. C) Control experiment using functionalized beads lacking sdAbs.