Product datasheet

protag-HiPur RFP Agarose Beads

Short overview

Cat. No.	89200L
Quantity	2 ml

Product description

Host	Llama/alpaca
Antibody Type	Recombinant, produced in E.coli
Isotype	Single-domain antibody
Clone	2B12
Immunogen	RFP
Formulation	50% slurry in PBS containing 20% Ethanol
Transfer Vector	> 4 µg RFP per µl of packed beads
Packaging Plasmid	sdAb anti-RFP clone 2B12
Support	4% cross-linked agarose, bead size 50-150 µm
Buffer compatibility	- Common buffer substances at pH 5 to 9 - 2% Triton X-100, 1% Tween-20, 1% NP-40, 1% CHAPS, 1% Deoxycholate, 0.1% SDS - 4 M NaCl, 2 M KCl, 1 M MgCl2, 100 mM EDTA - 4 M urea - 10 mM DTT, 10 mM 2-Mercaptoethanol - RNAse A, DNAse I, Benzonase, protease inhibitors
Purification	Affinity chromatography
Storage	2-8°C
Intended use	Research use only
Application	IP
Reactivity	dsRed1/dsRed2, mCherry, mOrange2, mRFP, mScarlet-i, tdTomato
No reactivity	Dendra2, Dronpa, tdEOS, mEOS3.2, mRuby3, mTFP, GFP, mTagBFP or their most common derivatives

Applications

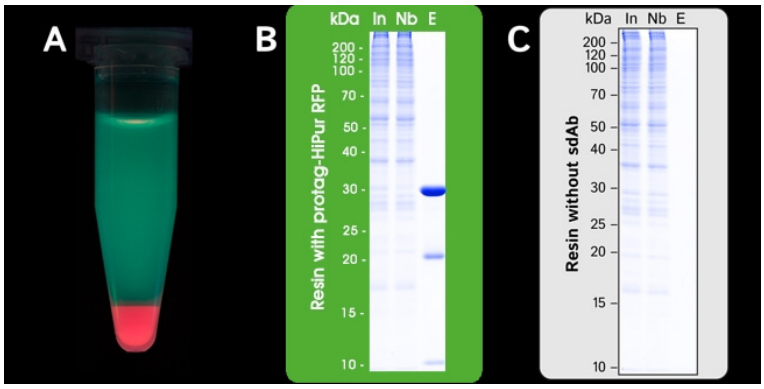
Immunoprecipitation (IP)	yes

Background

protag-HiPur RFP 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 RFP Agarose Beads thus feature high affinity and superior capacity for RFP fusion proteins while showing negligible non-specific background. protag-HiPur GFP Agarose Beads immobilize a wide range of RFP derivatives,

such as most common red fluorescent proteins like mRFP, mCherry, dsRed, tdTomato and mScarlet. It does not cross-react with GFP or mTagBFP/mTagRFP derivatives. protag-HiPur RFP Agarose Beads are compatible not only with physiological buffers but also with high stringency buffers. With protag-HiPur RFP Agarose Beads the binding and washing conditions can be adjusted to the experimental needs.

Product images



A) Pull-down of mCherry from a mixture of GFP, mCherry and mTagBFP. B) IP of mCherry 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.