
Data Sheet

RFP Selector

Catalog No.	N0410-S	N0410-M	N0410-L
Resin μ L	100	250	1000
Slurry μ L	200	500	2000

Description

RFP Selector is based on a high-affinity single-domain antibody (sdAb) that is covalently immobilized on 4 % cross-linked agarose beads. The innovative, 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 stable and covalent attachment, no leakage of light and heavy chains is observed during elution with SDS sample buffer. RFP Selector thus features high affinity and superior capacity for RFP fusion proteins while showing negligible unspecific background. RFP Selector immobilizes a wide range of RFP derivatives.

RFP Selector is compatible not only with physiological buffers but also with high stringency buffers (see "Buffer Compatibility" below). RFP Selector thus provides great freedom to adjust the binding and washing conditions to the experimental needs.

For recommended protocols please see our webpage at www.nano-tag.com/protocols.

**To be used *in vitro* / for research only,
not for diagnostic or therapeutic use!**

Non-toxic, non-hazardous, non-infectious.

Properties

Support 4 % cross-linked agarose, bead size 50-150 µm

Coating sdAb anti-RFP clone 2B12

Reactivity Recognizes most common red fluorescent proteins like mRFP, mCherry, mScarlet, dsRed, tdTomato and mOrange

Does not cross-react with GFP or mTagBFP/mTagRFP derivatives.

For a detailed overview visit our webpage at www.nano-tag.com/protocols.

Capacity > 4 µg RFP per µl of packed beads

Formulation 50 % slurry in PBS containing 20 % Ethanol

Shipment Shipped at ambient temperature

Storage Store at 4 °C, do not freeze

Stability Stable for 12 months

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

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Fluorescent Protein	GFP Selector	RFP Selector	TagFP Selector
Sirius	✓		
tSapphire	✓✓		
Cerulean	✓✓✓		
eCFP	✓✓✓✓		
mTurquoise, mTurquoise2	✓✓✓✓✓		
acGFP	✓✓✓✓✓		
EGFP	✓✓✓✓✓		
Emerald GFP	✓✓✓✓✓		
mEGFP (A206K)	✓✓✓✓✓		
mEGFP (L221K)	✓✓✓✓✓		
superecliptic pHluorin	✓✓✓✓✓		
paGFP	✓✓✓✓✓		
superfolder GFP	✓✓✓✓✓		
eYFP	✓✓✓✓✓		
mVenus	✓✓✓✓✓		
Citrine	✓✓✓✓✓		
mRFP		✓	
mCherry		✓✓	
mScarlet		✓✓✓	
mOrange2		✓✓✓✓	
tdTomato		✓✓✓✓✓	
dsRed1 , dsRed2		✓✓✓✓✓	
mTagBFP			✓
mKate, mKate2			✓✓
mTagRFP			✓✓
mTagRFP657			✓✓

Not recognized: Dendra2, Dronpa, tdEOS, mEOS3.2, mRuby3 and mTFP (mTeal)