
Data Sheet

RFP Selector

	100 µl resin/ 200 µl slurry	1000 µl resin/ 2000 µl slurry
Catalog No.	N0410-S	N0410-L

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, dsRed and tdTomato. 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	• Common buffer substances at pH 5 to 9
Compatibility	• 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 MgCl_2 , 100 mM EDTA • 4 M urea • 10 mM DTT, 10 mM 2-Mercaptoethanol • RNase A, DNase I, Benzonase, protease inhibitors

For more information please visit our web page at www.nano-tag.com

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anti-Fluorescent Protein Selector Resins Specificity Chart

Fluorescent Protein	GFP Selector	RFP Selector	TagFP Selector
Sirius	++	-	-
tSapphire	++	-	-
Cerulean	++	-	-
eCFP	++	-	-
mTurquoise2	-	-	-
mTFP (mTeal)	+	-	-
acGFP	+	-	-
EGFP	++	-	-
Emerald GFP	++	-	-
mEGFP (A206K)	++	-	-
mEGFP (L221K)	++	-	-
superecliptic pHluorin	+	-	-
paGFP	+	-	-
superfolder GFP	++	-	-
eYFP	+	-	-
mVenus	++	-	-
Citrine	+	-	-
mOrange2	-	+	-
dsRed1	-	++	-
dsRed2	-	++	-
tdTomato	-	++	-
mRFP	-	+	-
mCherry	-	++	-
mTagBFP	-	-	++
mKate	-	-	++
mTagRFP	-	-	++
mTagRFP657	-	-	++
Dendra2	-	-	-
Dronpa	-	-	-
tdEOS	-	-	-
mEOS3.2	-	-	-

++: strong positive signal; + positive signal; - no signal