Datasheet for ABIN5311510

RFP-Catcher

1 Image

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Overview

Quantity:	2000 µL
Target:	RFP
Reactivity:	Discosoma
Expression System:	E.coli
Application:	RNA-Binding Protein Immunoprecipitation (RIP), Protein Complex Immunoprecipitation (Co-IP), Immunoprecipitation (IP), Purification (Purif), Chromatin Immunoprecipitation (ChIP)

Product Details

Purpose:	RFP-Catcher is based on a high-affinity single-domain antibody (sdAb) that is covalently immobilized on 4% cross-linked agarose beads.
Sample Type:	Cell Extracts
Specificity:	Recognizes most common red fluorescent proteins like mRFP and derivatives like mCherry, mScarlet-i, tdTomato, dsRed and mOrange.
Cross-Reactivity (Details):	Does not cross-react with GFP or mTagBFP derivatives.
Characteristics:	RFP-Catcher 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 covalent attachment, no "leakage" of light and heavy chains from IgGs is observed during elution with SDS sample buffer. RFP-Catcher thus features high affinity and superior capacity for RFP fusion proteins while showing negligible non-specific background.

Product Details

	RFP-Catcher immobilizes a wide range of RFP derivatives including mCherry and mScarlet. RFP Selector is compatible not only with physiological buffers but also with high stringency buffers. RFP-Catcher thus provides great freedom to adjust the binding and washing conditions to the experimental needs.
Components:	4 % cross-linked agarose (bead size 50-150 µm) with covalently immobilized single-domain antibody
Material not included:	wash buffers, columns, tubes
Bead Ligand:	Antibody
Bead Matrix:	Agarose beads
Bead Size:	90 µm

Target Details

Target:	RFP
Alternative Name:	RFP (RFP Products)

Application Details

Application Notes:	Coating: sdAb anti-RFP clone 2B12 Matrix: 4 % cross-linked agarose, bead size 50-150 µm Capacity: > 4 µg RFP per µl of packed beads (= 2 µL of slurry) 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
Restrictions:	For Research Use only

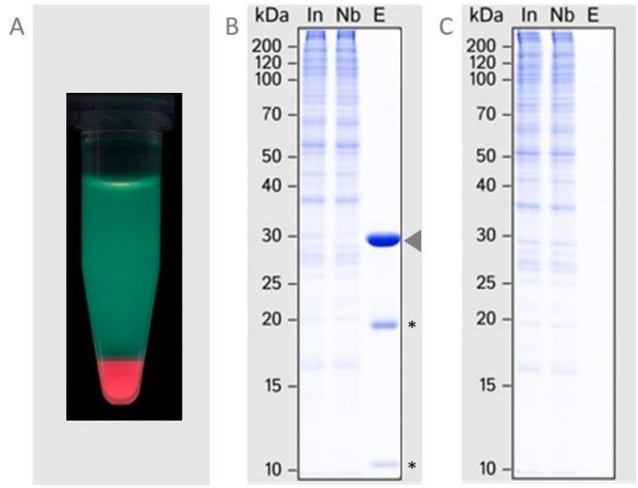
Handling

Buffer:	50 % slurry in PBS containing 20 % Ethanol
Storage:	4 °C

Handling

Storage Comment:	Store at 4 °C, do not freeze
Expiry Date:	12 months

Images



Immunoprecipitation

Image 1. (A) Pull-down of mCherry from a mixture of GFP, mCherry and mTagBFP (B) Immunoprecipitation of mCherry (arrow) from HeLa lysate. In/Ft: 1/1000 of input and non-bound material. E: Eluate from 1 µL of beads *: Specific maturation band from RFP family member (C) Control experiment using functionalized beads lacking sdAbs.