



Datasheet for ABIN5311512

BFP-Catcher



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1 Image

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Overview

Quantity:	2000 µL
Target:	Blue Fluorescent Protein (BFP)
Reactivity:	Entacmaea quadricolor
Host:	Camelid (Camelidae)
Application:	Protein Complex Immunoprecipitation (Co-IP), Immunoprecipitation (IP), Purification (Purif), Chromatin Immunoprecipitation (ChIP), RNA-Binding Protein Immunoprecipitation (RIP)

Product Details

Purpose:	BFP-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 mTagBFP, mKate, mKate2, mTagRFP, mTagRFP657 and most common fluorescent proteins deriving from Entacmaea quadricolor
Cross-Reactivity (Details):	Does not cross-react with common GFP- or dsRed derivatives.
Characteristics:	<p>BFP-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. BFP-Catcher thus features high affinity and superior capacity for BFP fusion proteins while showing negligible non-specific background.</p> <p>BFP-Catcher is compatible not only with physiological buffers but also with high stringency</p>

Product Details

buffers.

BFP-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: Blue Fluorescent Protein (BFP)

Alternative Name: TagBFP ([BFP Products](#))

Application Details

Application Notes: Coating: sdAb anti-BFP clone 1H7
Matrix: 4 % cross-linked agarose, bead size 50-150 μm
Capacity: > 4 μg BFP 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

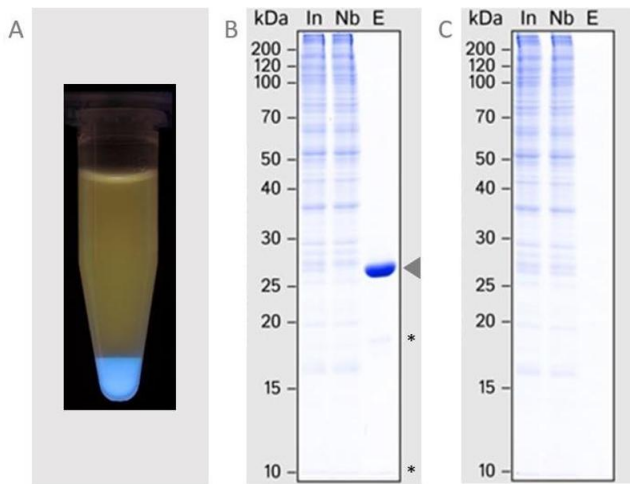
Storage Comment: Store at 4 °C, do not freeze

Expiry Date: 12 months

Product cited in:

Devant, Boršič, Ngwa, Xiao, Chouchani, Thiagarajah, Hafner-Bratkovič, Evavold, Kagan: "Gasdermin D pore-forming activity is redox-sensitive." in: **Cell reports**, Vol. 42, Issue 1, pp. 112008, (2023) ([PubMed](#)).

Images



Immunoprecipitation

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