# antibodies -online.com





Datasheet for ABIN5311512

# **BFP-Catcher**





Publication



Go to Product page

( )	11	$\sim$	rv		۱ ۸
	1 \ /	⊢	I \/	╙	1/1

Quantity:	2000 μL		
Target:	Blue Fluorescent Protein (BFP)		
Reactivity:	Entacmaea quadricolor		
Expression System:	E.coli		
Application:	RNA-Binding Protein Immunoprecipitation (RIP), Protein Complex Immunoprecipitation (Co-IF Immunoprecipitation (IP), Purification (Purif), Chromatin Immunoprecipitation (ChIP)		
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:	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.  BFP-Catcher is compatible not only with physiological buffers but also with high stringency		

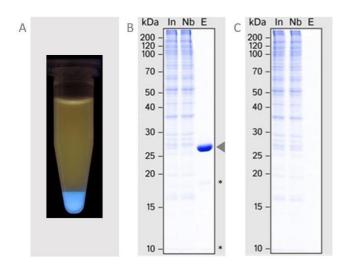
## **Product Details**

1 Toddot Detailo			
	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		
	<ul> <li>2 % Triton X-100, 1 % Tween-20, 1 % NP-40, 1 % CHAPS, 1 % Deoxycholate, 0.1 % SDS</li> </ul>		
	<ul><li>4 M NaCl, 2 M KCl, 1 M MgCl2, 100 mM EDTA</li><li>4 M urea</li></ul>		
	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, Boršić, 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  $\mu$ L of beads \*: Specific maturation band from BFP family members (C) Control experiment using functionalized beads lacking sdAbs.