Datasheet for ABIN5311508

GFP-Catcher

1 Image

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Overview

Quantity:	2000 µL
Target:	GFP
Reactivity:	Aequorea victoria
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:	GFP-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 GFP (green fluorescent protein) and common GFP derivatives like EGFP, mEGFP, Sirius, tSapphire, Cerulean, eCFP, mTurquoise, acGFP, Emerald, superecliptic pH luorin, paGFP, superfolder GFP, eYFP, mVenus and Citrine and most common CFP and YFP variants.
Cross-Reactivity (Details):	Does not cross-react with mCherry, mRFP, dsRed, mTagBFP or their most common derivatives.
Characteristics:	GFP-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. GFP-Catcher thus features high affinity and superior capacity for GFP fusion proteins while

Product Details

	showing negligible non-specific background. GFP-Catcher immobilizes a wide range of GFP derivatives. GFP-Catcher is compatible not only with physiological buffers but also with high stringency buffers. GFP-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:	GFP
Alternative Name:	GFP (GFP Products)
Target Type:	Viral Protein

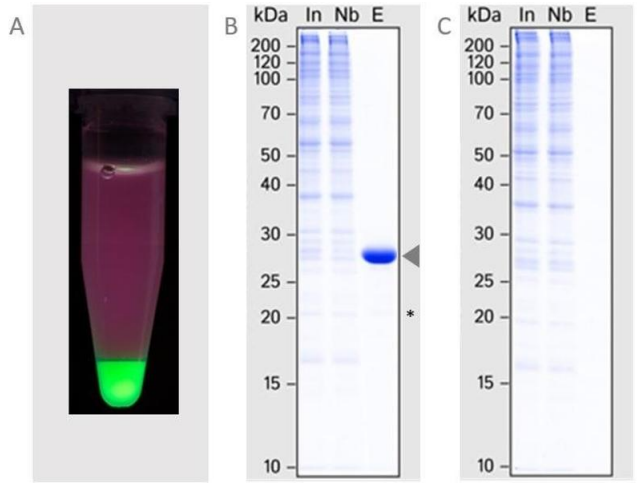
Application Details

Application Notes:	Coating: sdAb anti-GFP clone 1H1 Matrix: 4 % cross-linked agarose, bead size 50-150 µm Capacity: > 4 µg GFP 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

Images



Immunoprecipitation

Image 1. (A) Pull-down of GFP from a mixture of GFP, mCherry and mTagBFP (B) Immunoprecipitation of GFP (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 GFP family members (C) Control experiment using functionalized beads lacking sdAbs.