Datasheet for ABIN6953240

Recombinant anti-Blue Fluorescent Protein antibody (Alexa Fluor 647)

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Overview

Quantity:	200 µL
Target:	Blue Fluorescent Protein (BFP)
Reactivity:	Entacmaea quadricolor
Host:	Alpaca
Expression System:	E.coli
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This Blue Fluorescent Protein antibody is conjugated to Alexa Fluor 647
Application:	Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Camelid sdAb anti-TagBFP conjugated with Alexa647, Clone 1H7
Clone:	1H7
Fragment:	single-domain Antibody (sdAb)
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:	A dye conjugated alpaca single-domain antibody (sdAb), also referred to as VHH or nanobody. It is in the range of 15 kDa and 3 nm in molecular weight and size respectively. This means that sdAbs are ten times lighter and up to 5x smaller than a conventional IgG molecule. They can

Product Details

	position a fluorophore up to 20 nm closer to the intended target than using conventional primary-secondary antibody complex detection.
Purification:	The antibody produced in E.coli is derived from a single-domain antibody (sdAb) that recognizes fluorescent proteins deriving from Entacmaea quadricolor, such as mTagBFP, mTagRFP, mTagRFP657, and mKate with high affinity and specificity.
Labeling Ratio:	a single fluorophore is coupled to exactly one sdAb

Target Details

Target:	Blue Fluorescent Protein (BFP)
Alternative Name:	TagBFP (BFP Products)

Application Details

Application Notes:	Recommended dilution 1:500
Comment:	Each fluorophore is coupled to exactly one sdAb, which in turn binds to its target molecule in a monovalent fashion. The high binding affinity and a high coupling efficiency of > 95% guarantees a highly linear relation between target molecule number and fluorescent intensity. This enables you to directly count your target molecule of interest. The fluorophore is located exceptionally close to the recognized epitope (< 1.5 nm), which is ideal for all microscopy techniques.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Concentration:	5 µM
Buffer:	5 µM fluorescently labeled sdAb in buffered saline, 50 % glycerol, 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light!
Storage:	-20 °C,-80 °C

Handling

Storage Comment:	Up to 3 months store at -20 °C. Up to 12 months store at -80 °C or below
Expiry Date:	12 months

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