

Datasheet for ABIN6953244

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: Produced in: E.coli

Labeling Ratio: Two site-specifically conjugated fluorophores per sdAb.

Target Details

Target: Blue Fluorescent Protein (BFP)

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

Application Details

Application Notes: Recommended dilution 1:500

Comment: Two site-specifically coupled fluorophores per molecule. The reagent can therefore simultaneously target two fluorophores to your protein of interest, which results in enhanced image brightness. Owing to the small size of the sdAb, the distance between the target epitope and each fluorophore is below 4 nm. In comparison to conventional detection systems using conventional antibodies, this sdAb can thus improve the localization accuracy by 10-15 nm. Both features - enhanced brightness and precise fluorophore placement - renders this product superior tools for all microscopy techniques.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitute with 50 % glycerol in deionized water. We recommend including 0.1 % sodium azide as a preservative if applicable.

Concentration: 5 μ M

Buffer: lyophilized from PBS pH7.4 with 2% BSA (US-Origin)

Handling Advice: Protect from light!

Storage: -20 °C, -80 °C

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

Expiry Date: 12 months