

Datasheet for ABIN6953234

Recombinant anti-RFP antibody (Alexa Fluor 647)



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Overview

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

Product Details

Purpose:	Camelid sdAb anti-RFP conjugated with Alexa647, Clone 2B12
Clone:	2B12
Fragment:	single-domain Antibody (sdAb)
Specificity:	Recognizes most common red fluorescent proteins like mRFP and derivatives like mCherry, mScarlet-i, tdTomato, dsRed and mOrange.
Cross-Reactivity (Details):	Does not cross-react with GFP or mTagBFP 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:	a single fluorophore is coupled to exactly one sdAb

Target Details

Target:	RFP
Alternative Name:	RFP (RFP 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
Reconstitution:	Reconstitute with 50 % glycerol in deionized water. We recommend including 0.1 % sodium azide as a preservative if applicable.
Concentration:	5 µM
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