Product datasheet

protag-HiRes anti-TagFP-X1 Alexa 647

Short overview

Cat. No.	83112L
Quantity	200 µl

Product description

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Host	Llama/alpaca
Antibody Type	Recombinant, produced in E.coli
Isotype	Single-domain antibody
Clone	1H7
Immunogen	TagFP
Formulation	5 µM fluorescently labeled single-domain antibody in buffered saline, 50% glycerol, 0.09% sodium azide
Note	Centrifuge prior to opening
Conjugate	Alexa 647
Purification	Affinity chromatography
Storage	Up to 3 months: -20°C; up to 12 months: -80°C or below; protect from light!
Intended use	Research use only
Application	ICC/IF
Reactivity	mKate/mKate2, mTagBFP, mTagRFP, mTagRFP657
No reactivity	Dendra2, Dronpa, tdEOS, mEOS3.2, mRuby3, mTFP, GFP, dsRed or their most common derivatives

Applications

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Immunocytochemistry (ICC)	1:500

Background

protag-HiRes anti-TagFP camelid single-domain antibody (sdAb) produced by NanoTag Biotechnologies GmbH. It recognizes fluorescent proteins derived from Entacmaea quadricolor, such as mTagBFP, mTagRFP, mTagRFP657, mKate and mKate2 with high affinity and specificity.

In protag-HiRes anti-TagFP-X1, each fluorophore is coupled to exactly one single-domain antibody, 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.

Product images
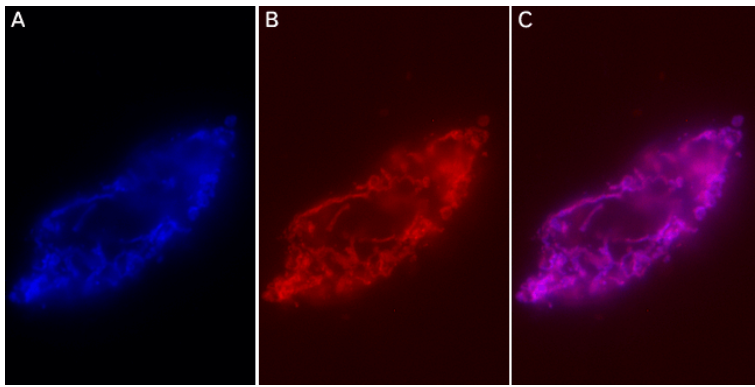
protag-HiRes anti-TagFP-X1 Alexa 647
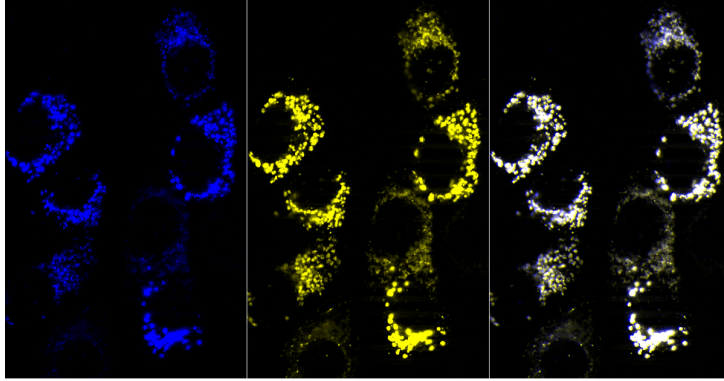
Immunostaining of PFA fixed 3T3 cells expressing a TOM70-BFP reporter protein with protag-HiRes anti-TagFP-X1 Abberior Star 635P (dilution 1:500, the BFP signal is represented in blue, the corresponding protag-HiRes signal is represented in yellow and the merge of both channels is represented in white)(courtesy of NanoTag Biotechnologies GmbH).