

Product datasheet

protag-HiRes anti-TagFP-X2 Alexa 647

Short overview

Cat. No.	83212L
Quantity	200 µl

Product description

Host	Llama/alpaca
Antibody Type	Recombinant, produced in E.coli
Isotype	Single-domain antibody
Clone	1H7
Immunogen	TagFP
Formulation	2.5 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

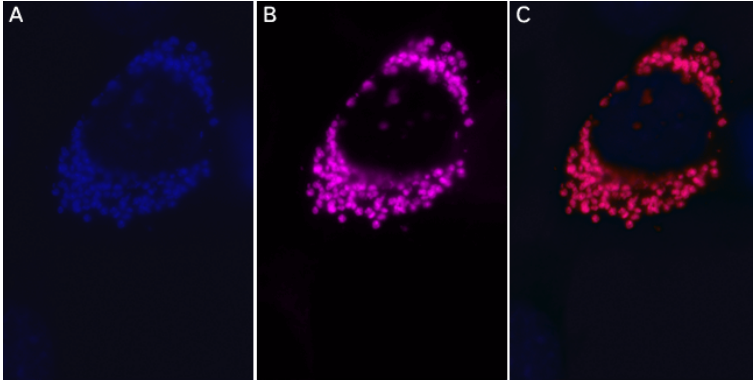
Immunocytochemistry (ICC)	1:500
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Background

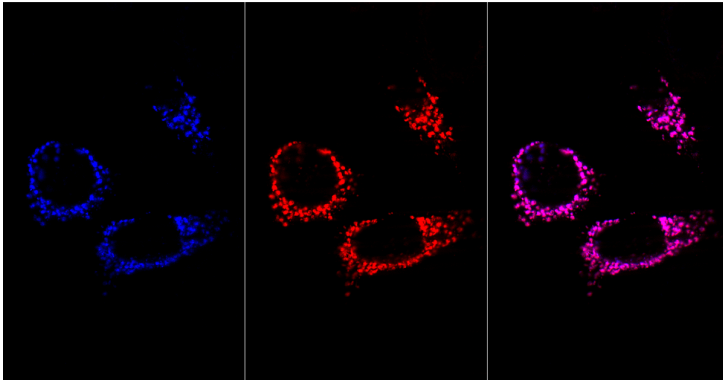
protag-HiRes anti-TagFP camelid single-domain antibody (sdAb) produced by NanoTag Biotechnologies GmbH. It recognizes fluorescent proteins derived from *Entacmaea quadricolor*, such as mTagBFP, mTagRFP, mTagRFP657, mKate and mKate2 with high affinity and specificity.

In protag-HiRes anti-TagFP-X2, two fluorophore molecules are site-specifically coupled to each individual single-domain antibody. protag-HiRes anti-TagFP-X2 can therefore simultaneously target two fluorophores to your protein of interest, which results in enhanced image brightness. Owing to the small size of our single-domain antibodies, the distance between the target epitope and each fluorophore is below 4 nm. In comparison to conventional detection systems using conventional antibodies, the protag-HiRes anti-TagFP-X2 can thus improve the localization accuracy by 10-15 nm. Both features - enhanced brightness and precise fluorophore placement - render the protag-HiRes anti-TagFP-X2 products superior tools for all microscopy techniques.

Product images



protag-HiRes anti-TagFP-X2 Alexa 647



Immunostaining of PFA fixed 3T3 cells expressing a TOM70-BFP reporter protein with protag-HiRes anti-TagFP-X2 Abberior Star 580 (dilution 1:500, the BFP signal is represented in blue, the corresponding protag-HiRes signal is represented in red and the merge of both channels is represented in magenta)(courtesy of NanoTag Biotechnologies GmbH).