

Product datasheet

protag-HiRes anti-GFP-X1 AF568

Short overview

Cat. No.	81111L
Quantity	200 µl

Product description

Host	Llama/alpaca
Antibody Type	Recombinant, produced in E.coli
Isotype	Single-domain antibody
Clone	1H1
Immunogen	GFP
Formulation	5 µM fluorescently labeled single-domain antibody in buffered saline, 50% glycerol, 0.09% sodium azide.
Note	Centrifuge prior to opening
Conjugate	AF568
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	Cerulean, Citrine, EGFP, Emerald GFP, GFP, Sirius, Superecliptic pHluorin, Superfold GFP, acGFP, eCFP, eYFP, mEGFP (A206K), mEGFP (L221K), mTurquoise 1/2, mVenus, paGFP, tSapphire
No reactivity	Dendra2, Dronpa, tdEOS, mEOS3.2, mRuby3, mTFP, mCherry, mRFP, dsRed, mTagBFP or their most common derivatives

Applications

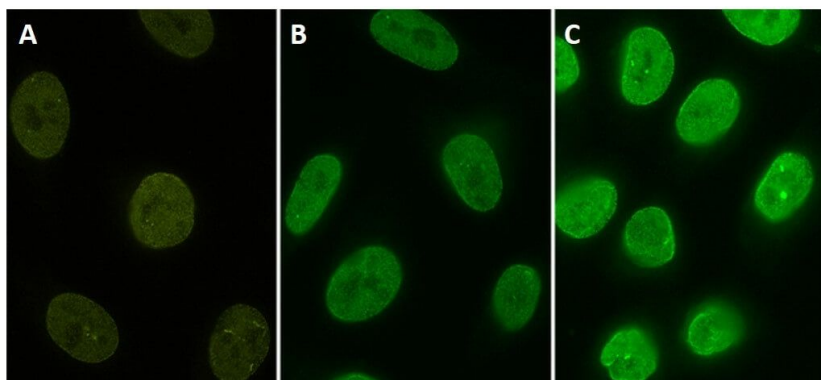
Immunocytochemistry (ICC)	1:500
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Background

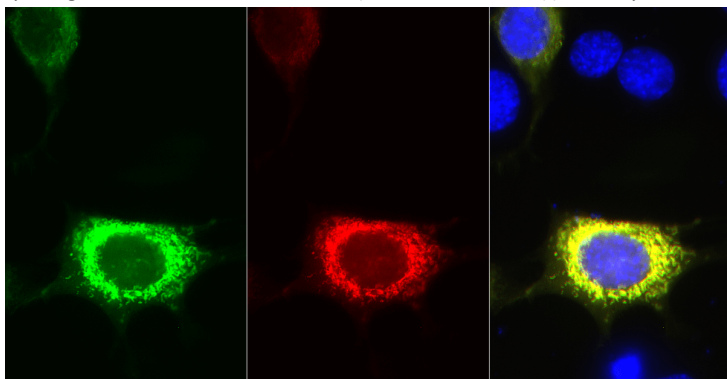
protag-HiRes anti-GFP camelid single-domain antibody (sdAb) produced by NanoTag Biotechnologies GmbH. It recognizes GFP and its most common derivatives with high affinity and specificity. It recognizes Sirius, tSapphire, Cerulean, eCFP, mTurquoise 1/2, GFP, acGFP, EGFP, Emerald GFP, mEGFP (A206K), mEGFP (L221K), superecliptic pHluorin, paGFP, superfolder GFP, eYFP, mVenus, Citrine.

In protag-HiRes anti-GFP-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.

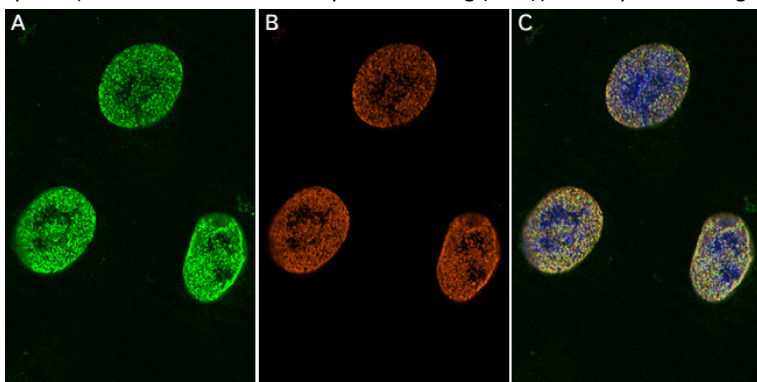
Product images



Stable HeLa cell line expressing YFP-fusion protein (A). Cells were stained with protag-HiRes anti-GFP-X1 Atto 488 (B, Cat. No. 81105) and protag-HiRes anti-GFP-X4 Atto 488 (C, Cat. No. 81405L)(courtesy of NanoTag Biotechnologies GmbH).



Immunostaining of PFA fixed 3T3 cells expressing a TOM70-GFP reporter protein with protag-HiRes anti-GFP-X1Atto 647N (dilution 1:500, the GFP signal is represented in green, the corresponding protag-HiRes signal is represented in red and the merge of both channels is represented in yellow). Nuclei were visualized by DAPI staining (blue)(courtesy of NanoTag Biotechnologies GmbH).



Stable HeLa cell line expressing YFP-fusion protein (A, false color). Cells were stained with protag-HiRes anti-GFP-X1 Atto 542 (B, false color). Overlay of both channels and additional DAPI stain (C)(courtesy of NanoTag Biotechnologies GmbH)