

Product datasheet

protag-HiRes anti-RFP-X1 Alex 647

Short overview

 Cat. No.
 82112L

 Quantity
 200 μl

Product description

Host Llama/alpaca

Antibody Type Recombinant, produced in E.coli

Isotype Single-domain antibody

Clone 2B12 Immunogen RFP

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 dsRed1/dsRed2, mCherry, mOrange2, mRFP, mScarlet-i, tdTomato

No reactivity Dendra2, Dronpa, tdEOS, mEOS3.2, mRuby3, mTFP, GFP, mTagBFP or their most common

derivatives

Applications

Immunocytochemistry (ICC)

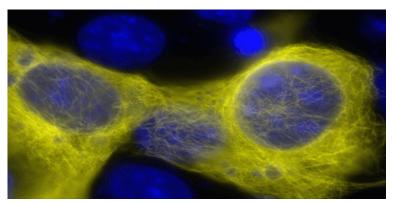
1:500

Background

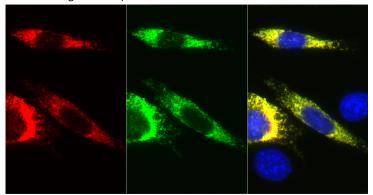
protag-HiRes anti-RFP camelid single-domain antibody (sdAb) produced by NanoTag Biotechnologies GmbH. It recognizes RFP and its most common derivatives with high affinity and specificity. It recognizes mOrange2, dsRed1, dsRed2, tdTomato, mRFP, mCherry, mScarlet-i.

In protag-HiRes anti-RFP-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



3T3 cells transfected with the mCherry-tubulin were stained with protag-HiRes anti-RFP-X1 Atto 542 (false color)(courtesy of NanoTag Biotechnologies GmbH).



Immunostaining of PFA fixed 3T3 cells expressing a TOM70-mCherry reporter protein with protag-HiRes anti-RFP-X1 Atto 488 (Cat. No. 82105L, dilution 1:500, the mCherry signal is represented in red, the corresponding protag-HiRes signal is represented in green and the merge of both channels is represented in yellow). Nuclei were visualized by DAPI staining (blue)(courtesy of NanoTag Biotechnologies GmbH).