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## Data Sheet

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### sdAb anti-RFP, unconjugated

Catalog No.                      N0401-250µg  
   N0401-1mg

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**Identity**                      Camelid sdAb anti-RFP; Clone 2B12  
   C-terminal Cysteine

**Data**                              Mr: 14.9 kD  
   Molar extinction coefficient (280nm): 32618/(M\*cm)

**Content**                        250 µg or 1 mg unconjugated sdAb in 10 mM KPi,  
   300 mM NaCl, 0.5 mM EDTA, 5 mM TCEP pH 6.0

**Reactivity**                    > 90%

**Storage**                        Up to 6 month: -80 °C

**Specificity**                    Recognizes most common red fluorescent proteins  
   like mRFP, mCherry, mScarlet, dsRed and tdTomato.  
  
   Does not cross-react with GFP or mTagBFP  
   derivatives.

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For more information please visit our web page at [www.nano-tag.com](http://www.nano-tag.com)

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To be used *in vitro* / for research only.  
Non-toxic, non-hazardous, non-infectious.

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## Maleimide Labelling Protocol

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- Remove TCEP and exchange buffer to 10 mM KPi, 300 mM NaCl, 2 mM EDTA, pH 6.0 by size exclusion chromatography
- Before labelling, add 1/10 vol 1M Tris/HCl pH 8.0
- On ice, add 1.5- to 5- fold molar excess of fluorophore as maleimide
- Quickly vortex
- Overlay with Argon
- Place on ice for 90 min
- Separate excess of dye from the labelled sdAb e.g. by size exclusion chromatography