

## Product datasheet

### protag-HiSec anti-mouse IgG kLC-X2 Licor 800CW

#### Short overview

<b>Cat. No.</b>	80214
<b>Quantity</b>	500 µl

#### Product description

<b>Host</b>	Llama/alpaca
<b>Antibody Type</b>	Recombinant, produced in E.coli
<b>Isotype</b>	Single-domain antibody
<b>Clone</b>	1A23
<b>Immunogen</b>	Mouse IgG kLC
<b>Formulation</b>	5 µM fluorescently labeled single-domain antibody in buffered saline, 50% glycerol, 0.09% sodium azide
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Licor 800CW
<b>Purification</b>	Affinity chromatography
<b>Storage</b>	Up to 3 months: -20°C; up to 12 months: -80°C or below; protect from light!
<b>Intended use</b>	Research use only
<b>Application</b>	FACS, ICC/IF, IHC, WB
<b>Reactivity</b>	Mouse IgG kappa light chain
<b>No reactivity</b>	Chicken IgG, Goat IgG, Guinea pig IgG, Rabbit IgG, Rat IgG

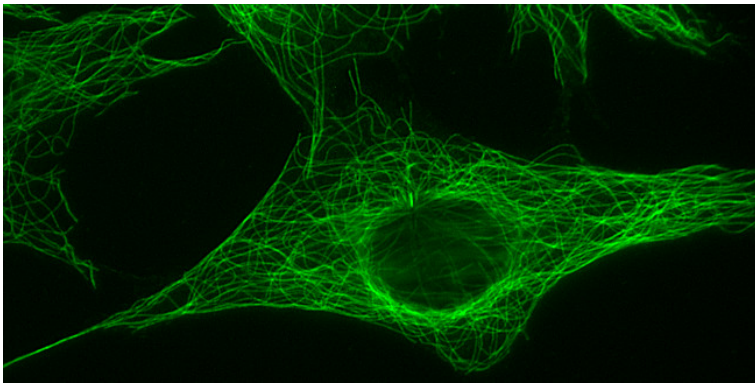
#### Applications

<b>Flow Cytometry (FACS)</b>	1:500
<b>Immunocytochemistry (ICC)</b>	1:500
<b>Immunohistochemistry (IHC) - frozen</b>	1:500
<b>Immunohistochemistry (IHC) - paraffin</b>	1:500
<b>Western Blot (WB)</b>	1:500

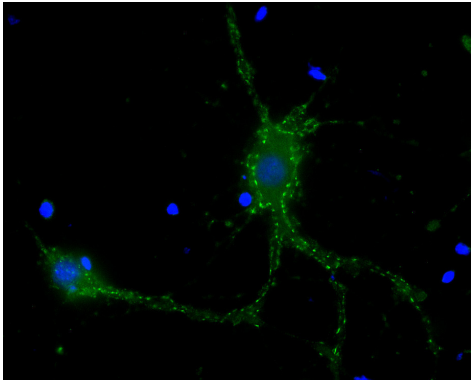
#### Background

protag-HiSec anti-mouse IgG is an isotype- and species-specific camelid single-domain antibody (sdAb) produced by NanoTag Biotechnologies GmbH. It is directed against mouse IgG and contains two site-specifically coupled fluorophores per protag molecule. One single-domain antibody targets two fluorophores to a primary mouse antibody. Due to the monovalent binding, there are no primary and secondary antibody clusters formed, leading to better epitope accessibility and a more precise localization. There are no batch-to-batch variations, since the protag-HiSecs single-domain antibodies are recombinantly expressed.

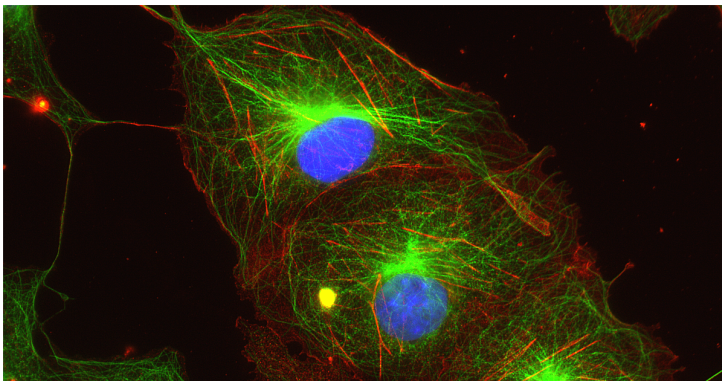
#### Product images



3T3 cells stained with mouse anti-alpha-tubulin and protag-HiSec anti-mouse IgG-X2 Abberior® Star 488 (courtesy of NanoTag Biotechnologies GmbH).



Rat hippocampus neurons stained with mouse anti-Synaptotagmin 1 and protag-HiSec anti-mouse IgG-X2 Atto 488 (Cat. No. 80205; green). Nuclei were stained using DAPI (blue) (courtesy of NanoTag Biotechnologies GmbH).



Multiplexing: Indirect immunostaining of PFA fixed Cos7 cells with an anti-beta-Actin primary antibody detected with protag-HiSec anti-mouse IgG kLC-X2 Atto 565 (represented in red) and an anti-alpha-Tubulin primary antibody detected with protag-HiSec anti-mouse IgG kLC-X2 Atto 488 (Cat. No. 80205, represented in green). Nuclei were visualized by DAPI staining (blue) (courtesy of NanoTag Biotechnologies GmbH).