

## Product datasheet

### protag-HiSec anti-mouse IgG2a/b-X2 Alexa 647

#### Short overview

<b>Cat. No.</b>	80512
<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>	14A4
<b>Immunogen</b>	Mouse IgG2
<b>Formulation</b>	5 µM fluorescently labeled single-domain antibody in buffered saline, 50% glycerol, 0.09% sodium azide (10 µM fluorophore)
<b>Note</b>	Centrifuge prior to opening
<b>Conjugate</b>	Alexa 647
<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>	ICC/IF, WB
<b>Reactivity</b>	Mouse IgG2 and IgG2b
<b>No reactivity</b>	Chicken IgG, Donkey IgG, Goat IgG, Guinea pig IgG, Human IgG, Mouse IgG1 and IgM, Rabbit IgG, Rat IgG

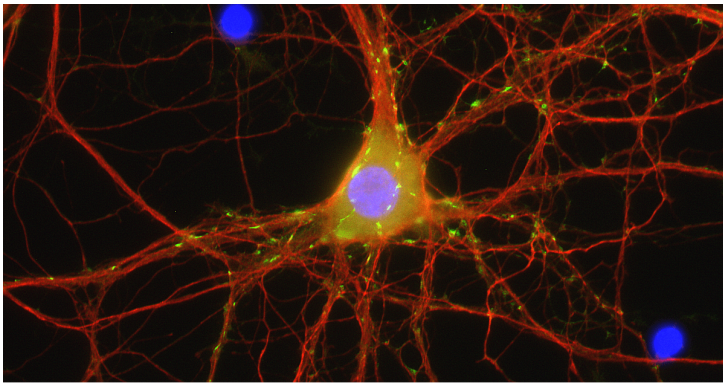
#### Applications

<b>Immunocytochemistry (ICC)</b>	1:500
<b>Western Blot (WB)</b>	1:500

#### Background

protag-HiSec anti-mouse IgG2a/b is an isotype- and species-specific camelid single-domain antibody (sdAb) produced by NanoTag Biotechnologies GmbH. It is directed against mouse IgG2a and IgG2b 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



Multiplexing: Indirect immunostaining of PFA fixed mouse hippocampus neurons with an anti-Tau primary antibody detected with protag-HiSec anti-mouse IgG2a/b-X2 Atto 565 (represented in red) and an anti-Synaptoporin primary antibody detected with protag-HiSec anti-mouse IgG2a/b-X2 Atto 488 (Cat. No. 80505, represented in green). Nuclei were visualized by DAPI staining (blue)(courtesy of NanoTag Biotechnologies GmbH).