Datasheet for ABIN7272926

Recombinant Alpaca anti-Mouse IgG2 Antibody (Atto 488)

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Overview

Quantity:	500 µL
Target:	IgG2
Reactivity:	Mouse
Host:	Alpaca
Expression System:	E.coli
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	Atto 488
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	FluoTag-X2 anti-Mouse IgG2 is a species-specific FluoTag directed against IgG2a and IgG2b subtype from Mouse. Especially useful for One-step immunofluorescence (IF) and Multiplexing applications. Our anti-mouse IgG2 sdAb binds specifically and strongly to mouse IgG2a and IgG2b independently of the IgGs VH (lambda or kappa light chain) domain.
Clone:	14A4
Fragment:	single-domain Antibody (sdAb)
Specificity:	Mouse IgG2, does not cross-react with rabbit, guinea pig or chicken immunoglobulins
Purification:	Produced in: E.coli

Product Details

Labeling Ratio:	Two site-specifically conjugated fluorophores per sdAb.

Target Details

Target:	IgG2
Abstract:	IgG2 Products
Target Type:	Antibody
Background:	In most of the research monoclonal antibodies are obtained from mice. These animals have a rich repertoire of immunoglobulins (Ig), displaying various isotypes (IgA, IgD, IgG, IgE, and IgM). Mouse IgGs can be categorized into five subclasses IgG1, IgG2a/c, IgG2b, IgG2c, and IgG3. In addition to these subclasses, each IgG molecule can be equipped with either a lambda or kappa light chain. The most striking difference between mouse IgG2 to other subclasses of IgGs is the significantly shorter hinge region (~12 amino acids shorter).

Application Details

Application Notes:	1:500 (corresponding to 5 nM final concentration if the sdAb was reconstituted as proposed)
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with 500 µL of 50 % glycerol in deionized water. We recommend including 0.1 % sodium azide as a preservative if applicable. When reconstituted with 500 µl, the concentration of single-domain antibody is 2.5 µM
Buffer:	The single sdAb clone was lyophilized from PBS pH 7.4.
Storage:	-20 °C/-80 °C
Storage Comment:	Vials containing lyophilized protein can be stored at 4 °C for 6 months. We recommend reconstituting the protein with 50 % sterile glycerol including 0.1 % sodium azide as preservative if applicable. Minimize the number of freeze-thaw cycles by aliquoting the reconstituted protein. Long term storage at -80 °C for up to 6 months. Working aliquots can be stored at -20 °C for up to 4 weeks. We do not recommend storing the reconstituted protein at 4 °C.