Goat anti-Mouse IgG2b Cross-Adsorbed Secondary Antibody, Alexa Fluor 488

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor® 488
Immunogen	Mouse IgG2b
Form	liquid
Concentration	2 mg/mL
Purification	purified
Storage buffer	PBS, pH 7.5
Contains	5mM sodium azide
Storage conditions	4° C, store in dark
RRID	AB_2535778

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	1-10 µg/mL	3 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	1-10 µg/mL	3 Publications
Flow Cytometry (Flow)	1-10 µg/mL	1 Publication
Miscellaneous PubMed (Misc)	-	19 Publications

Product Specific Information

To minimize cross-reactivity, these goat anti-mouse IgG2b whole secondary antibodies have been affinity purified and cross-adsorbed against mouse IgM, mouse IgA, pooled human sera, purified human paraproteins, and mouse isotypes IgG1, IgG2a, and IgG3 prior to conjugation. Cross-adsorption or pre-adsorption is a purification step to increase specificity of the antibody resulting in higher sensitivity and less background staining. The secondary antibody solution is passed through a column matrix containing immobilized serum proteins from potentially cross-reactive species. Only the nonspecific-binding secondary antibodies are captured in the column, and the highly specific secondaries flow through. The benefits of this extra step are apparent in multiplexing/multicolor-staining experiments (e.g., flow cytometry) where there is potential cross-reactivity with other primary antibodies or in tissue/cell fluorescent staining experiments where there are may be the presence of endogenous immunoglobulins.

Alexa Fluor dyes are among the most trusted fluorescent dyes available today. Invitrogen™ Alexa Fluor 488 dye is a bright, green-

fluorescent dye with excitation ideally suited to the 488 nm laser line. For stable signal generation in imaging and flow cytometry, Alexa Fluor 488 dye is pH-insensitive over a wide molar range. Probes with high fluorescence quantum yield and high photostability allow detection of low-abundance biological structures with great sensitivity. Alexa Fluor 488 dye molecules can be attached to proteins at high molar ratios without significant self-quenching, enabling brighter conjugates and more sensitive detection. The degree of labeling for each conjugate is typically 2-8 fluorophore molecules per IgG molecule; the exact degree of labeling is indicated on the certificate of analysis for each product lot.

Using conjugate solutions: Centrifuge the protein conjugate solution briefly in a microcentrifuge before use; add only the supernatant to the experiment. This step will help eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining. Because staining protocols vary with application, the appropriate dilution of antibody should be determined empirically. For the fluorophore-labeled antibodies a final concentration of 1-10 µg/mL should be satisfactory for most immunohistochemistry and flow cytometry applications.

Product will be shipped at Room Temperature.

31 References

Western Blot (1)

Scientific reports

Functional conservation and coherence of HIV-1 subtype A Vpu alleles.

"A21141 was used in western blot to analyze HIV-1 Vpu sequences isolated from patients"

Authors: Romani B,Kavyanifard A,Allahbakhshi E

Species
Not Applicable

Dilution
Not Cited

Year
2017

Immunohistochemistry (3)

Nature communications

Targeting VEGF-A in myeloid cells enhances natural killer cell responses to chemotherapy and ameliorates cachexia.

"A-21141 was used in Immunohistochemistry to investigate the effect of VEGF-A genetic inactivation in myeloid cells on natural killer cell responses and chemotherapy-induced cachexia."

Authors: Klose R,Krzywinska E,Castells M,Gotthardt D,Putz EM,Kantari-Mimoun C,Chikdene N,Meinecke AK,Schrödter K,Helfrich I,Fandrey J,Sexl V,Stockmann C

Species
Mouse
Not Applicable

Dilution
1:200
1:200

Year
2016

Journal of cell science

Innervation regulates synaptic ribbons in lateral line mechanosensory hair cells.

"A-21141 was used in Immunohistochemistry to study the effect of post-synaptic elements on ribbon formation and maintenance in the zebra fish lateral line system."

Authors: Suli A,Pujol R,Cunningham DE,Hailey DW,Prendergast A,Rubel EW,Raible DW

Species
Mouse
Not Applicable

Dilution
1:400
1:400

Year
2016

View more IHC references on thermofisher.com

Immunohistochemistry (Paraffin) (2)

Journal of cutaneous pathology

Loss of primary cilia correlates with cytologic severity in dysplastic melanocytic nevi.

"A21141 was used in immunohistochemistry - paraffin section to investigate cilia in cases of dysplastic nevi"

Authors: Lang UE,Cheung C,Vladar EK,Swetter SM,Kim J

Species
Not Applicable

Dilution
1:300

Year
2016

More applications with references on thermofisher.com

IHC (F) (2) ICC/IF (3) Flow (1) Misc (19)