Goat anti-Chicken IgY (H+L) Secondary Antibody, Alexa Fluor™ 568

Product Details

Size	1 mg
Species Reactivity	Chicken
Host/Isotype	Goat / IgG
Class	Polyclonal
Туре	Secondary Antibody
Conjugate	Alexa Fluor™ 568
Excitation/Emission Max	579/603 nm
Immunogen	Gamma Immunoglobins Heavy and Light chains
Immunogen Form	Gamma Immunoglobins Heavy and Light chains liquid
Immunogen Form Concentration	Gamma Immunoglobins Heavy and Light chains liquid 2 mg/mL
Immunogen Form Concentration Purification	Gamma Immunoglobins Heavy and Light chains liquid 2 mg/mL purified
Immunogen Form Concentration Purification Storage buffer	Gamma Immunoglobins Heavy and Light chains liquid 2 mg/mL purified PBS, pH 7.5
Immunogen Form Concentration Purification Storage buffer Contains	Gamma Immunoglobins Heavy and Light chains liquid 2 mg/mL purified PBS, pH 7.5 5mM sodium azide
ImmunogenFormConcentrationPurificationStorage bufferContainsStorage conditions	Gamma Immunoglobins Heavy and Light chains liquid 2 mg/mL purified PBS, pH 7.5 5mM sodium azide 4° C, store in dark

Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000-1:10,000	-
Immunohistochemistry (IHC)	1-10 μg/mL	0 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	0 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	0 Publication
Immunocytochemistry (ICC/IF)	1-10 μg/mL	0 Publication
Flow Cytometry (Flow)	1-10 μg/mL	-
Miscellaneous PubMed (Misc)	-	0 Publication

Product Specific Information

Alexa Fluor dyes are among the most trusted fluorescent dyes available today. Invitrogen[™] Alexa Fluor 568 dye is a bright, orange/red-fluorescent dye with excitation ideally suited to the 568 nm laser line. For stable signal generation in imaging and flow cytometry, Alexa Fluor 568 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 568 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.

Product Images For Goat anti-Chicken IgY (H+L) Secondary Antibody, Alexa Fluor™ 568



Chicken IgY (H+L) Secondary Antibody (A-11041)

Specificity of secondary antibody was demonstrated by specific detection of the target immunoglobulin. Antibody specificity was demonstrated by specific detection of Chicken IgY. A band at ~67 kDa corresponding to Chicken IgY Heavy Chain was observed in Chicken IgY but not in other species using Goat anti-Chicken IgY (H+L) Secondary Antibody, Alexa Fluor[™] 568 (Product # A-11041) in Western Blot. {RE}

Chicken IgY (H+L) Secondary Antibody (A-11041) in WB

Multiplexed fluorescent western blot was performed using Goat anti-Chicken IgY (H+L) Secondary Antibody, Alexa Fluor[™] 568 (Product # A-11041). Whole cell extracts of MCF10A (Lane 1, 2, 3), SH-SY5Y (Lane 4, 5, 6), HaCaT (Lane 7), and MCF7 (Lane 8) were electrophoresed usingNuPAGE[™] 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were transferred onto anitrocellulose membrane (Product # IB23001) byiBlot® 2 Dry BlottingSystem (Product # IB21001). The blot was probed with Vimentin Polyclonal Antibody (Product # PA1-10003), and GAPDH Loading Control Monoclonal Antibody (GA1R) (Product # MA5-15738). Secondary antibodies (Product # A-11041, 1: 10000 dilution), and (Product # A32766, 1:10000 dilution) were used for detection of Vimentin, and GAPDH respectively. Fluorescent detection was performed usingiBrightFL1500 (Product # A44115). The anti-chicken secondary antibody (Product # A-11041) specifically detects the chicken primary antibody.

Chicken IgY (H+L) Secondary Antibody (A-11041) in ICC/IF



Aged mice display exacerbated S100+Vim+ reactive astrogliosis in the hippocampus but not the neocortex following TBI. Serial sections comprising the dorsal hippocampus were imaged for S100 (i) and Vimentin (ii) as a colocalization image (iii). Pixel positive area was defined for each stain using young sham's levels. HALO colocalization algorithm was used to compute the total colocalized area for both S100 (green, iv) and Vimentin (red, iv), which was represented as the dual-positive staining fraction (yellow, iv). Dual-positive astrocytes were increasingly reactive as a function of time after injury for aged mice, which show a progressive accumulation peaking at 7 days post-injury. Comparatively, young mice display relatively little change as a result of TBI at any time post-injury. ANOVA revealed significant differences in the hippocampus due to age (F (1, 28) = 33.61, P < 0.0001), interval (F (3, 28) = 10.38, P < 0.0001), and their interaction (F (3, 28) = 5.831, P = 0.0032). However, no significant effects for age, interval, or their interaction were observed for these measures in the neocortex. **P < 0.01 for pairwise comparisons of 3-day and 7day intervals between young and aged mice. n = 4-5/group. Data are presented as mean ± SEM. Young, gray bars; Aged, blue bars. Scale bar is 50 µm Image collected and cropped by CiteAb from the following publication (https://pubmed. ncbi.nlm.nih.gov/32290848), licensed under a CC BY license.

View more figures on thermofisher.com

2

□ 196 References

Progressive lifespan modifications in the corpus callosum following a single juvenile concussion in male mice monitored by diffusion MRI bioRxiv (2023)

Astrocytes regulate neuronal network burst frequency through NMDA receptors species- and donorspecifically bioRxiv (2023)

Photobiomodulation Can Enhance Stem Cell Viability in Cochlea with Auditory Neuropathy but Does Not Restore Hearing. Stem Cells Int (2023)

Functional brain region-specific neural spheroids for modeling neurological diseases and therapeutics screening. Commun Biol (2023)

Phase Separation of a Novel form of Euchromatic Histone Methyltransferasel (EHMT1N/C) into cytoplasmic RNA viral Inclusion bodies facilitates their coalescence, thereby enhancing viral replication bioRxiv (2023)

For Research Use Only, Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, this warranty is specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications represent that any Product specifications in effect at the time of sale, as set forth in the Production documentation, this warranty is provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty are one other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. No OTHER WARRANTES, EXPRESS OR INVELD, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTES OF MERCHANTABILITY, FITNESS FOR ANY PARTICLAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEEVP FOR NON-CONFORMING PRODUCTS DURING THE WARRANTE NO CLEARING TO TO REPAIR, REPLACE OR REFUND FOR THE NON-CONFORMING PRODUCTS SOLED OFTION. THERE IS NO BALLEGUENT OF OR REFUND FOR THE NON-CONFORMING PRODUCTS SOLED OFTION. THERE IS NO BALLEGUENT OF OR CHECKING TO A REFURE TO RET THE REVOLUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (III) USE OF THE PRODUCTS IN A MANKER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS IN A MANKER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MANKER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MANKER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND IN ANY ON therapeutic uses, or any type of consumption by or application to human or animals.