

# Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 700

Product Details	
Size	1 mg
Species Reactivity	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 nm
Immunogen	Gamma Immunoglobins Heavy and Light chains
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_2535707

Applications	Tested Dilution	Publications
Western Blot (WB)	0.04-0.2 µg/mL	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

This secondary antibody is designed for fluorescent Western blot detection on various near-infrared fluorescence instruments. This antibody can be used for multi-color and multiplexing detection when using other antibodies conjugated to compatible Alexa Fluor™ dyes and wavelengths. Other applications of this antibody include immunofluorescent and fluorescent imaging applications when using instrumentation with appropriate excitation and detection capabilities.

Product will be shipped at Room Temperature.

Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-21036) in WB

Fluorescent western blot was performed using Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 700 (Product # A-21036). Whole cell extracts of A-431 (Lane 1, 2), HaCaT (Lane 3, 4), SH-SY5Y (Lane 5), HeLa (Lane 6) and MCF7 (Lane 7) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Cytokeratin 5 Monoclonal Antibody (Product # MA5-15347), and GAPDH Monoclonal Antibody (Product # MA5-15738). Secondary antibodies (Product # A-21036, 0.05 µg/mL), and (Product # A32789, 1:5,000) were used for detection of Cytokeratin 5, and GAPDH respectively. Fluorescent detection was performed using iBright™ FL1500 (Product # A44115). The anti-mouse secondary antibody (Product # A-21036) specifically detects the mouse primary antibody.

Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-21036) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of K-562 (Lane 1) and U-87 MG (Lane 2). The blots were probed with Anti-SOD2 Mouse Monoclonal Antibody (Product # MA1-106, 2 µg/mL) and detected using Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 700 (Product # A-21036) at dilutions 0.2 µg/mL (Fig. 1), 0.1 µg/mL (Fig. 2) and 0.04 µg/mL (Fig. 3). A 22 kDa band corresponding to SOD2 was observed. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary antibody after blocking with 5 % skimmed milk. Fluorescent detection was performed using the Odyssey® Fc imaging system (Li-cor Biosciences).

Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody (A-21036) in WB

Fluorescent western blot was performed using Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor 700 (Product # A-21036) and ~55 kDa, 25 kDa bands corresponding to Mouse IgG Heavy Chain and Light Chain were observed in Mouse IgG, Mouse IgG1, Mouse IgG2a, Mouse IgG2b, Mouse IgG3 but not in Rabbit IgG, Goat IgG and Human IgG. Purified protein (100 ng) of Mouse IgG (Lane 1), Mouse IgG1 (Lane 2), Mouse IgG2a (Lane 3), Mouse IgG2b (Lane 4), Mouse IgG3 (Lane 5), Mouse IgM (Lane 6), Rabbit IgG (Lane 7), Goat IgG (Lane 8), Rat IgG (Lane 9), Human IgG (Lane 10) (Fig. a) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 700 (Product # A-21036, 0.1 µg/mL) and detected using the iBright™ FL1500 (Product # A44115). Silver staining was performed to establish equivalent loading of purified proteins using the Pierce™ Silver Stain Kit (Product # 24612) (Fig. b). This antibody shows cross-reactivity with Mouse IgM and Rat IgG.

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Deletion of miPEP in adipocytes protects against obesity and insulin resistance by boosting muscle metabolism. *Mol Metab* (2024)

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Phenomics demonstrates cytokines additive induction of epithelial to mesenchymal transition *bioRxiv* (2024)

Identification and characterization of stromal-like cells with CD207+/low CD1a+/low phenotype derived from histiocytic lesions - a perspective in vitro model for drug testing. *BMC Cancer* (2024)

uAUG creating variants in the 5'UTR of ENG causing Hereditary Hemorrhagic Telangiectasia. *NPJ Genom Med* (2023)

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