

Goat anti-Mouse IgG (H+L) Secondary Antibody, WesternDot™ 625

Product Details

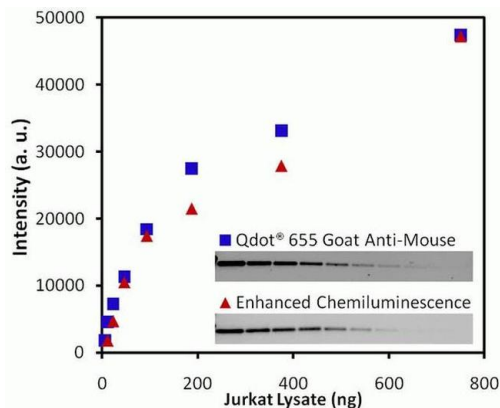
Size	25 blots
Species Reactivity	Mouse
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	WesternDot™ 625
Immunogen	Mouse Immunoglobins
Form	Liquid
Purification	purified
Storage buffer	50mM borate, pH 8.3, with 1M betaine
Contains	0.05% sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_2556790

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500	-

Product Specific Information

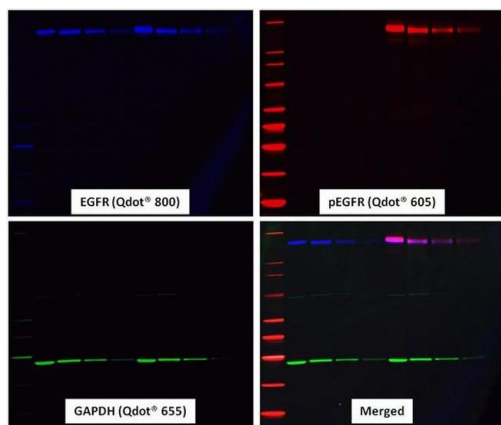
WesternDot fluorescently labeled secondary antibodies deliver superior signal-to-noise ratios and exhibit comparable sensitivity to enhanced chemiluminescence (ECL)-based methods in western blot applications. No stripping and re-probing or multiple blots are required for multiple protein detection as commonly needed with ECL or colorimetric detection. Differently labeled WesternDot antibodies can be applied to a single blot for simultaneous detection of multiple proteins using standard gel or blot imaging platforms (a list of instruments that are compatible with WesternDot detection can be found in the user manual below). Our WesternDot antibodies utilize Qdot nanocrystals enhanced with VIVID technology, making them brighter than the original Qdot reagents. Additionally, they have reduced intensity differences between the different colors, simplifying multiplex applications.

Product Images For Goat anti-Mouse IgG (H+L) Secondary Antibody, WesternDot™ 625



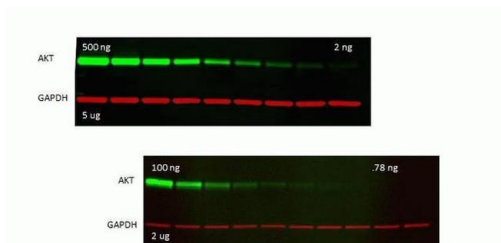
Mouse IgG (H+L) Secondary Antibody (W10808) in WB

Comparison of enhanced chemiluminescence (ECL) and WesternDot® fluorescence-based western blot protein detection. Serial dilutions (750-3 ng protein) of GAPDH were run on NuPAGE® Novex® 4-12% Bis-Tris precast gels (Product # NP0321BOX) and transferred to iBlot® nitrocellulose membranes (Product # IB3010-32) using the iBlot® Gel Transfer Device (Product # IB1001). The membranes were probed with anti-GAPDH antibodies followed by either ECL detection using a horseradish peroxidase goat anti-mouse IgG or fluorescence detection using WesternDot® 655 goat anti-mouse IgG (Product # W10813). Images were collected using the Fujifilm® LAS-4000 gel imager. Partial blot images show GAPDH detection, and the graph shows the detection sensitivities of the two techniques.



Mouse IgG (H+L) Secondary Antibody (W10808) in WB

Simultaneous detection of three proteins on a single blot using Qdot® secondary antibody conjugates. A western blot containing serial dilutions (20-3 µg protein) of lysates from unstimulated (lanes 2-5) and hEGF-stimulated (lanes 6-9) A431 cells was probed with mouse anti-EGFR, rabbit anti-phospho-EGFR, and chicken anti-GAPDH antibodies, followed by (A) WesternDot® 800 goat anti-mouse (pseudocolored blue), (B) WesternDot® 605 goat anti-rabbit (pseudocolored red), and (C) WesternDot® 655 goat anti-chicken (pseudocolored green) conjugates. (D) The merged image shows overlaid red and blue bands as purple. The blot contains MagicMark™ XP Western Protein Standard (lane 1, Product # LC5603) and was imaged using the Fujifilm® LAS-4000 gel imager.



Mouse IgG (H+L) Secondary Antibody (W10808) in WB

Simultaneous detection of a protein of interest and a loading control on a single blot using WesternDot® secondary antibodies. A western blot containing a dilution series of recombinant AKT in a background of Jurkat lysate at a constant loading of 5 µg total protein. The blot was probed with mouse anti-AKT and rabbit anti-GAPDH, followed by WesternDot™ 655 goat anti-mouse (Product # W10813, pseudocolored green) and WesternDot™ 800 goat anti-rabbit (Product # W10816, pseudocolored red) conjugates and imaged using the Fujifilm® FLA-9000 imager.

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