F(ab')2-Goat anti-Rabbit IgG (H+L) Secondary Antibody, Qdot™ 705

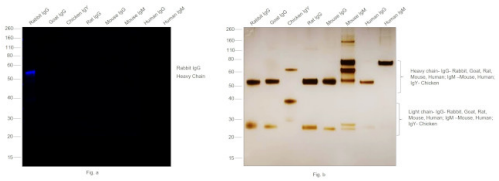
Product Details	
Size	200 µL
Species Reactivity	Rabbit
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	Qdot™ 705
Excitation/Emission Max	300/702 nm
Immunogen	Gamma Immunoglobins Heavy and Light chains
Form	Liquid
Purification	purified
Storage buffer	0.05M borate, pH 8.3, with 1M betaine
Contains	0.05% sodium azide
Storage conditions	4° C, store in dark
RRID	AB_2556474

Applications	Tested Dilution	Publications
Western Blot (WB)	1:50-1:3,000	-
Immunohistochemistry (IHC)	1:50	-
Immunocytochemistry (ICC/IF)	1:50-1:500	-
Flow Cytometry (Flow)	1:50	-

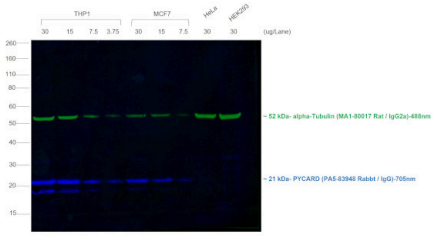
Product Specific Information

Qdot nanocrystals are composed of semi-conductor material to generate a fluorescent particle which is exceptionally bright and does not photobleach. Qdot nanocrystals paired with the correct optical filters are as much as 50 times brighter than traditional organic dyes.

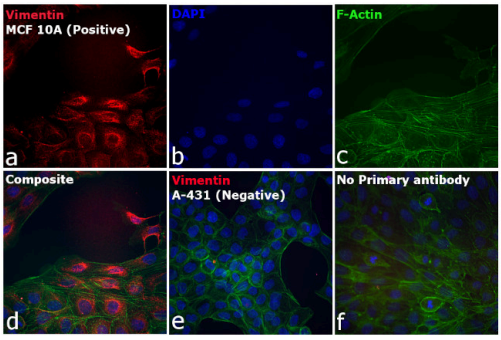
Product Images For F(ab')2-Goat anti-Rabbit IgG (H+L) Secondary Antibody, Qdot™ 705



Rabbit IgG (H+L) Secondary Antibody (Q-11461MP)
Specificity of secondary antibody was demonstrated by specific detection of the target immunoglobulin. Antibody specificity was demonstrated by specific detection of Rabbit IgG. A band at ~55 kDa corresponding to Rabbit IgG Heavy Chain was observed in Rabbit IgG but not in other species using F(ab)2-Goat anti-Rabbit IgG (H+L) Secondary Antibody, Qdot 705 (Product # Q-11461MP) in Western Blot. {RE}



Rabbit IgG (H+L) Secondary Antibody (Q-11461MP) in WB
Multiplexed fluorescent western blot was performed using F(ab)2-Goat anti-Rabbit IgG (H+L) Secondary Antibody, Qdot™ 705 (Product # Q-11461MP). Membrane enriched extracts of THP1 (Lane 1, 2, 3, 4), MCF7 (Lane 5, 6, 7), HeLa (Lane 8) and HEK293 (Lane 9) were electrophoresed usingNuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were transferred onto anitrocellulose membrane (Product # IB23001) byiBlot® 2 Dry BlottingSystem (Product # IB21001). The blot was probed with PYCARD Polyclonal Antibody (Product # PA5-83948), and alpha Tubulin Monoclonal Antibody (YL1/2) (Product # MA1-80017). Secondary antibodies (Product # Q-11461MP, 1:3000 dilution), and (Product # A48269, 1:10000 dilution) were used for detection of PYCARD, and alpha Tubulin respectively. Fluorescent detection was performed usingiBrightFL1500 (Product # A44115). The anti-rabbit secondary antibody (Product # Q-11461MP) specifically detects the rabbit primary antibody.



Rabbit IgG (H+L) Secondary Antibody (Q-11461MP) in ICC/IF
Immunofluorescence analysis of F(ab)2-Goat anti-Rabbit IgG (H+L) Secondary Antibody, Qdot™ 705 was performed using MCF 10A (positive model) and A-431 (negative model) cells stained with Vimentin Polyclonal antibody (Product # PA5-27231). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, blocked with 2% BSA for 1 hour and labeled with 1:500 dilution of primary antibody at 4 degree celsius. F (ab)2-Goat anti-Rabbit IgG (H+L) Secondary Antibody, Qdot™ 705, 1:500 dilution) in 0.1% BSA in PBS for 45 minutes at room temperature, was used for detection of Vimentin in the cytoskeleton (Panel a: Red). Nuclei (Panel b: blue) were stained with Hoechst33342 (Product # H1399). F-actin was stained with Alexa Fluor® 488 Phalloidin (Product # A12379, 1:500) (Panel c: green). Panel d represents the composite image. The specificity of the secondary antibody was proved by the absence of signal in A-431 (negative model for Vimentin) due to no primary antibody binding (Panel e). Non-specific staining was not observed with secondary antibody alone (panel f). The images were captured at 40X magnification in CellInsight CX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LZR) and externally deconvoluted (D.Sage et al./Methods 115 (2017) 28–41).

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8 References

Non-canonical interplay between glutamatergic NMDA and dopamine receptors shapes synaptogenesis. Nat Commun (2024)

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