Goat anti-Human IgM Cross-Adsorbed Secondary Antibody, DyLight™ 680

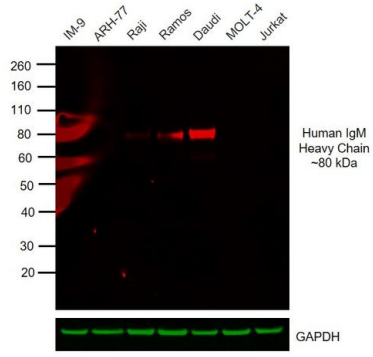
Product Details	
Size	500 µg
Species Reactivity	Human
Host/Isotype	Goat / IgG
Class	Polyclonal
Type	Secondary Antibody
Conjugate	DyLight™ 680
Excitation/Emission Max	676/705 nm
Immunogen	Human IgM
Form	Liquid
Concentration	0.5 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 6.8 to 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_2556686

Applications	Tested Dilution	Publications
Western Blot (WB)	1:5,000-1:20,000	-
Immunohistochemistry (IHC)	1:50-1:2,000	-
Immunocytochemistry (ICC/IF)	1:50-1:2,000	-
Flow Cytometry (Flow)	1:50-1:200	-
Immunoprecipitation (IP)	Assay-dependent	-

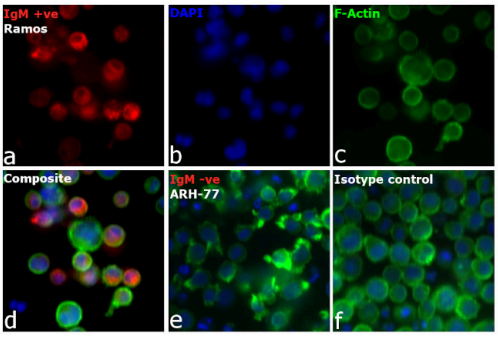
Product Specific Information

This antibody is cross-adsorbed and exhibits minimum reactivity to mouse and rat.

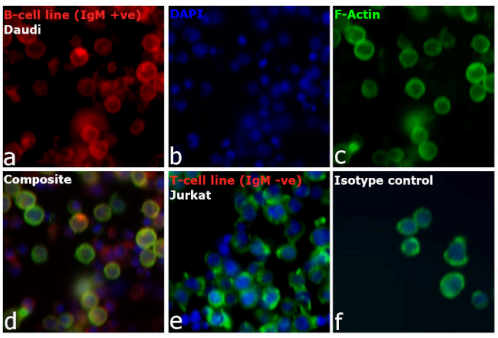
Product Images For Goat anti-Human IgM Cross-Adsorbed Secondary Antibody, DyLight™ 680



Human IgM Cross-Adsorbed Secondary Antibody (SA5-10106) in WB
Western blot was performed using Goat anti-Human IgM Cross-Adsorbed Secondary Antibody, DyLight 680 (Product # SA5-10106) and an ~80 kDa band corresponding to Human IgM Heavy Chain was observed in Raji, Ramos and Daudi but not in IM-9, ARH-77, MOLT-4 and Jurkat8203. Whole cell extracts (30 µg) of IM-9 (Lane 1), ARH-77 (Lane 2), Raji (Lane 3), Ramos (Lane 4), Daudi (Lane 5), MOLT-4 (Lane 6) and Jurkat (Lane 7) 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-Human IgM Cross-Adsorbed Secondary Antibody, DyLight 680 (Product # SA5-10106) (1:2000 dilution) and detected by fluorescence using the iBright FL1500 (Product # A44115). Raji, Ramos and Daudi are known to express IgM whereas IM-9 and ARH-77 express IgG and are negative for IgM. MOLT-4 and Jurkat, being T-cell lines, do not express immunoglobulins. (DOI: 10.1002/eji.1830100305; 10.3791/3573; 10.1016/0022-1759(94)00286-6; PMID: 566614).



Human IgM Cross-Adsorbed Secondary Antibody (SA5-10106) in ICC/IF
Immunofluorescence analysis of Goat anti-Human IgM Cross-Adsorbed Secondary Antibody, DyLight680 was performed using log phase Ramos cells (IgM producing B-cell line). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Goat anti-Human IgM Cross-Adsorbed Secondary Antibody,DyLight680 (Product # SA5-10106) at 1:250dilution in 0.1% BSA, incubated at 4 degree celsius overnight (Panel a: red). Nuclei (Panel b: blue) were stained with Hoechst33342 (Product # H1399). F-actin (Panel c: green) was stained with Alexa Fluor™ 488 Phalloidin (Product # A12379,1:300 dilution). Panel d represents the merged image showing cytoplasmic (plasma membrane and golgi-body like) localization. Panel e represents ARH-77 (IgM non-producing B-cell line) which is a negative model for IgM expression.Panel f represents control cells with isotype control antibody to assess background. The images were captured at 40X magnification in Cell Insight CX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LZR) (DOI:10.1002/eji.1830100305; 10.3791/3573; 10.1016/0022-1759(94)00286-6; PMID: 566614).



Human IgM Cross-Adsorbed Secondary Antibody (SA5-10106) in ICC/IF
Immunofluorescence analysis of Goat anti-Human IgM Cross-Adsorbed Secondary Antibody,DyLight680 was performed using log phase Daudi cells (B-cell line). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with Goat anti-Human IgM Cross-Adsorbed Secondary Antibody,DyLight680 (Product # SA5-10106) at 1:250 dilution in 0.1%BSA, incubated at 4 degree celsius overnight (Panel a: red). Nuclei (Panel b: blue) were stained with Hoechst 33342 (Product# H1399). F-actin (Panel c: green) was stained with Alexa Fluor™ 488 Phalloidin (Product # A12379, 1:300 dilution). Panel d represents the merged image showing cytoplasmic (plasma membrane and golgi-body like) localization. Panel e represents Jurkat cells (T-cell line) which is a negative model for IgM expression. Panel f represents control cells with isotype control antibody to assess background. The images were captured at 40X magnification inCellInsightCX7 LZR High-Content Screening (HCS) Platform (Product # CX7A1110LZR) (DOI: 10.1002/eji.1830100305; 10.3791/3573; 10.1016/0022-1759(94)00286-6; PMID: 566614).

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