



# **Goat anti-Human IgM Secondary Antibody**

<b>Product Details</b>	
Size	2 mg
Species Reactivity	Human
Host/Isotype	Goat / IgG
Class	Polyclonal
Туре	Secondary Antibody
Conjugate	Unconjugated
Form	Liquid
Concentration	2.32 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.6
Contains	no preservative
Storage conditions	4° C
RRID	AB_228279

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2000	-
Immunohistochemistry (IHC)	Assay-dependent	-
Immunocytochemistry (ICC/IF)	Assay-dependent	-
Flow Cytometry (Flow)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	-

## **Product Specific Information**

Concentration may vary slightly from lot-to-lot, see lot-specific datasheet for exact concentration.

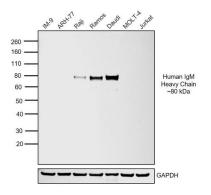
Product # 31136 has been successfully used in Western blot, IF, ICC, IHC, IP and FACS applications.

Product # 31136 reacts with the Fc5µ portion of human IgM heavy chain. This antibody does not react against normal human IgG or IgA, or against non-immunoglobulin serum proteins. However, this antibody may cross-react with IgM from other species.

Store product at 4°C until opened. After opening, dilute only enough antibody for a single day's use. Store remainder at 4°C under sterile conditions.

Country of origin: USA

## Product Images For Goat anti-Human IgM Secondary Antibody

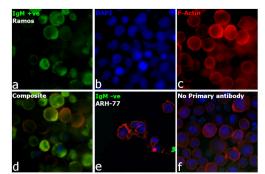


#### Human IgM Secondary Antibody (31136) in WB

Western blot was performed using Goat anti-Human IgM Secondary Antibody (Product # 31136) 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 Product # 31136 (1:2000 dilution) and detected by chemiluminescence with Rabbit anti-Goat IgG Heavy Chain Superclonal™ Recombinant Secondary Antibody, HRP Conjugate (Product # A27014, 1:20,000 dilution) using the iBright FL1500 (Product # A44115). Chemiluminescentdetection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). 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).

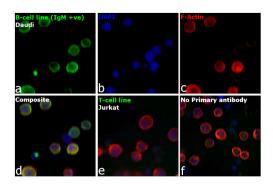
### Human IgM Secondary Antibody (31136) in ICC/IF

Immunofluorescence analysis of Goat anti-Human IgM Secondary Antibody was performed using log phaseRamos cells (IgM producing B-cell line). The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15minutes, andblocked with 2% BSA for 1 hour at room temperature. The cells were labeled withGoat anti-Human IgM Secondary Antibody (Product # 31136) at 1:250 dilution in 0.1% BSA, incubated at 4degreecelsiusovernight and then with Donkey anti-Goat IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32814) at a dilution of 1:2000 dilution for 45 minutes at room temperature (Panel a: green). Nuclei(Panel b: blue) were stained with Hoechst 33342 (Product # H1399). Factin (Panel c: red) was stained with Alexa Fluor™ Plus 647 Phalloidin (Product #A30107, 1:2000 dilution). Panel d represents the merged image showing cytoplasmic (plasma membraneandgolgi-body like) localization. Panel e represents ARH-77 cells (IgM non-producing B-cell line) which is a negative model forlgM expression. Panel f represents control cells with no primary 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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#### **□1** Reference

The lysine methyltransferase SMYD5 amplifies HIV-1 transcription and is post-transcriptionally upregulated by Tat and USP11. Cell Rep (2023)

A Microflow Cytometry-Based Agglutination Immunoassay for Point-of-Care Quantitative Detection of SARS-CoV-2 IgM and IgG. Micromachines (Basel) (2021)

Comparative study on the response of rat primary astrocytes and microglia to methylmercury toxicity. Glia (2011)

Methylmercury induces acute oxidative stress, altering Nrf2 protein level in primary microglial cells. Toxicol Sci (2010)

Ethanolaminephosphate side chain added to glycosylphosphatidylinositol (GPI) anchor by mcd4p is required for ceramide remodeling and forward transport of GPI proteins from endoplasmic reticulum to Golgi. J Biol Chem (2006)

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