

# GFP Monoclonal Antibody (GF28R), Biotin

Product Details	
Size	50 µL
Species Reactivity	Tag
Published Species	Tag
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	GF28R
Conjugate	Biotin
Immunogen	GFP from the jellyfish Aequorea Victoria N-terminal peptide-KLH conjugated.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS with proprietary stabilizer
Contains	0.02% sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_2537647

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:1,000	2 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Immunocytochemistry (ICC/IF)	1:500-1:2,000	-
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	-

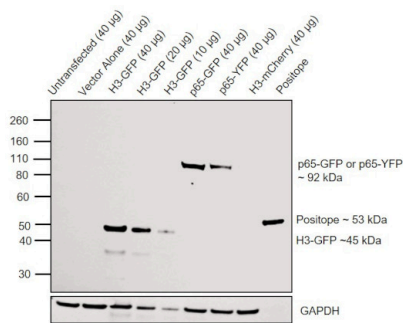
## Product Specific Information

MA5-15256-BTIN has been successfully used for Western blot, ELISA, ICC/IF and IP applications.

Product Images For GFP Monoclonal Antibody (GF28R), Biotin

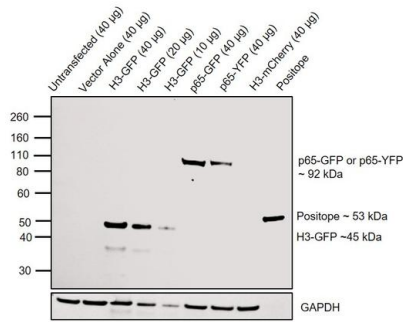
GFP Antibody (MA5-15256-BTIN)

Antibody specificity was demonstrated by detection of different targets fused to GFP tag in transiently transfected lysates tested. Relative detection of GFP tag was observed across different proteins fused with GFP in H3-GFP (Lane 3-5) and p65-GFP (Lane 6). GFP-variant, YFP is also being detected in His-p65-YFP lysate (Lane 7), using Anti-GFP Monoclonal Antibody (GF28R), Biotin (Product # MA5-15256-BTIN) in Western Blot. {RE}



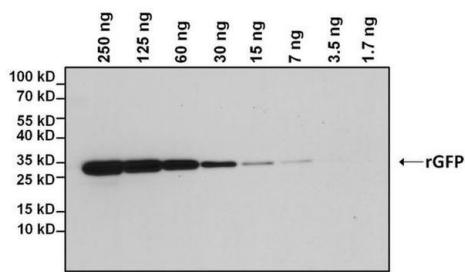
GFP Antibody (MA5-15256-BTIN) in WB

Western blot was performed using Anti-GFP Monoclonal Antibody (GF28R), Biotin (Product # MA5-15256-BTIN) by loading whole cell extracts of untransfected and transiently transfected HEK-293E lysates: untransfected, 40 µg (Lane 1), empty vector control, 40 µg (Lane 2), H3-GFP, 40 µg (Lane 3), H3-GFP, 20 µg (Lane 4), H3-GFP, 10 µg (Lane 5), p65-GFP, 40 µg (Lane 6), His-p65-YFP, 40 µg (Lane 7), H3-mCherry, 40 µg (Lane 8) and 25 ng Positope (Lane 9) 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). A ~45 kDa band of H3-GFP and a ~92 kDa band of p65-GFP were observed in transfected lysates on probing with primary antibody (1:1000 dilution) and detected by chemiluminescence with Poly-HRP Streptavidin (Product # N200, 1:5000 dilution) using the iBright FL 1500 (Product # A44241). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). Positope (Product # R90050) is a 53 kDa recombinant protein consisting multiple epitope tags, which has been used as a positive control for GFP detection. This product also detects Yellow Fluorescent Protein (YFP), a variant of GFP as observed in Lane 7. No cross-reactivity was seen with mCherry (RFP family) expressing lysate.



GFP Antibody (MA5-15256-BTIN) in WB

Western blot analysis of GFP was performed by loading various amounts of recombinant GFP per well onto a 4-20% Tris-HCl polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked with 5% BSA/TBST for at least 1 hour. The membrane was probed with biotinylated GFP monoclonal antibody (Product # MA5-15256-BTIN) at a dilution of 1:1000 for 1 hour at room temperature, followed by Streptavidin-HRP (Product # 21126) at a dilution of 1:20,000 for 30 minutes at room temperature. Chemiluminescent detection was performed using SuperSignal West Pico (Product # 34078).



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Western Blot (2)

EMBO reports	Year 2022
<b>A peptide encoded by pri-miRNA-31 represses autoimmunity by promoting T<sub>reg</sub> differentiation.</b>	
"Published figure using GFP monoclonal antibody (Product # MA5-15256-BTIN) in Western Blot"	
Authors: Zhou H,Lou F,Bai J,Sun Y,Cai W,Sun L,Xu Z,Liu Z,Zhang L,Yin Q,Zhang J,Gao Y,Wang Z,Niu L,Cai X,Deng S, Wang H,Xia L,Ginhoux F,Li Q,Wang H	
PloS one	Year 2016
<b>REGULATOR OF BULB BIOGENESIS1 (RBB1) Is Involved in Vacuole Bulb Formation in Arabidopsis.</b>	Species Tag
"Published figure using GFP Tag monoclonal antibody (Product # MA5-15256-BTIN) in Western Blot"	
Authors: Han SW,Alonso JM,Rojas-Pierce M	

Immunohistochemistry (Frozen) (1)

Hepatology communications	Year 2019
<b>Acetaminophen Intoxication Rapidly Induces Apoptosis of Intestinal Crypt Stem Cells and Enhances Intestinal Permeability.</b>	Species Tag
"Published figure using GFP monoclonal antibody (Product # MA5-15256-BTIN) in Immunofluorescence"	
Authors: Chopyk DM,Stuart JD,Zimmerman MG,Wen J,Gumber S,Suthar MS,Thapa M,Czaja MJ,Grakoui A	

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