

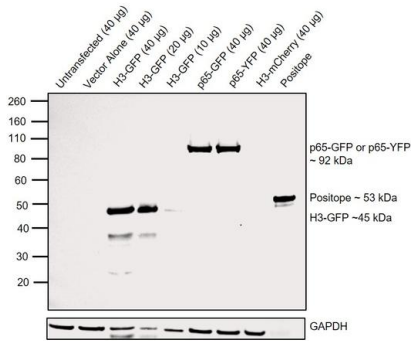
GFP Polyclonal Antibody, Alexa Fluor™ 594

Product Details	
Size	100 µL
Species Reactivity	Tag
Published Species	Tag
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Alexa Fluor™ 594
Excitation/Emission Max	590/618 nm
Immunogen	The GFP was isolated directly from the jellyfish Aequorea victoria.
Form	Liquid
Concentration	2 mg/mL
Purification	Ion-exchange chromatography
Storage buffer	PBS, pH 7.5
Contains	5mM sodium azide
Storage conditions	4° C, store in dark
RRID	AB_221478

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	1 Publication
Immunohistochemistry (IHC)	Assay-dependent	13 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	3 Publications
Immunocytochemistry (ICC/IF)	1-10 µg/mL	10 Publications
Immunoprecipitation (IP)	-	1 Publication

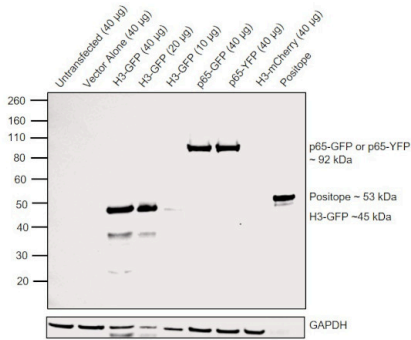
GFP Antibody (A-21312) in WB

Western Blot was performed using Anti-GFP Polyclonal Antibody, Alexa Fluor 594 (Product # A-21312) 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 (1:2000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1500 (Product # A44241). 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.



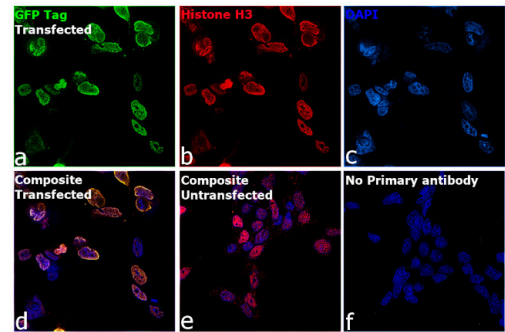
GFP Antibody (A-21312)

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 Polyclonal Antibody, Alexa Fluor 594 (Product # A-21312) in Western Blot. {RE}



GFP Antibody (A-21312) in ICC/IF

Immunofluorescent analysis of GFP Tag was performed using H3-GFP Tag transfected HEK-293 cells. 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 GFP Polyclonal Antibody, Alexa Fluor 594 (Product # A-21312) at 1:100 dilution and Histone H3 Monoclonal Antibody (865R2) Product # AHO1432 at 1:200 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgM (Heavy Chain) Secondary Antibody, Alexa Fluor 647 (Product # A-21238) at a dilution of 1:2000 for 45 minutes at room temperature. Panel a (Nuclei: Green) represents GFP Polyclonal Antibody, Alexa Fluor 594, a green pseudo-colour has been given after image capture. Panel b (Nuclei: Red) represents Histone H3. Panel c (Nuclei: Blue) represents ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). Panel d represents the merged image showing the co-localization of nuclear signals in transfected cells. Panel e represents untransfected HEK cells. Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (1)

Frontiers in cardiovascular medicine	Year 2022
E-Selectin-Overexpressing Mesenchymal Stem Cell Therapy Confers Improved Reperfusion, Repair, and Regeneration in a Murine Critical Limb Ischemia Model.	Species Tag
"A-21312 was used in Immunohistochemistry to confer increased limb reperfusion, neovascularization, improved recovery, decreased muscle atrophy, and thus offers a potential therapeutic method for future clinical studies."	
Authors: Quiroz HJ,Valencia SF,Shao H,Li Y,Ortiz YY,Parikh PP,Lassance-Soares RM,Vazquez-Padron RI,Liu ZJ, Velazquez OC	

Immunohistochemistry (13)

The Journal of neuroscience : the official journal of the Society for Neuroscience	Year 2022
Interactions between Brainstem Neurons That Regulate the Motility to the Stomach.	Species Tag
"A-21312 was used in Immunohistochemistry-immunofluorescence to indicate that interacting NPY and SST neurons are integral to the network that controls vagal transmission to the stomach."	
Authors: Bellusci L,Garcia DuBar SN,Kuah M,Castellano D,Muralidaran V,Jones E,Rozeboom AM,Gillis RA,Vicini S, Sahibzada N	
	Dilution 1:500

Frontiers in cardiovascular medicine	Year 2022
E-Selectin-Overexpressing Mesenchymal Stem Cell Therapy Confers Improved Reperfusion, Repair, and Regeneration in a Murine Critical Limb Ischemia Model.	Species Tag
"A-21312 was used in Immunohistochemistry to confer increased limb reperfusion, neovascularization, improved recovery, decreased muscle atrophy, and thus offers a potential therapeutic method for future clinical studies."	
Authors: Quiroz HJ,Valencia SF,Shao H,Li Y,Ortiz YY,Parikh PP,Lassance-Soares RM,Vazquez-Padron RI,Liu ZJ, Velazquez OC	

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Immunohistochemistry (Frozen) (3)

Theranostics	Year 2017
Polymer-DNA Nanoparticle-Induced CXCR4 Overexpression Improves Stem Cell Engraftment and Tissue Regeneration in a Mouse Hindlimb Ischemia Model.	Species Tag
"A-21312 was used in immunohistochemistry - frozen section to utilize a mouse hindlimb ischemia model to show improvement of tissue regeneration and stem cell engraftment through polymer-DNA nanoparticle-induced CXCR4 overexpression"	
Authors: Deveza L,Choi J,Lee J,Huang N,Cooke J,Yang F	
	Dilution 1:200

[View more IHC \(F\) references on thermofisher.com](#)

More applications with references on thermofisher.com

ICC/IF (10)

IP (1)

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