

GFP Polyclonal Antibody, Alexa Fluor™ 488

Product Details

Size	100 µL
Species Reactivity	Tag
Published Species	Tag, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Immunogen	The GFP was isolated directly from the jellyfish Aequorea victoria.
Form	Liquid
Concentration	2 mg/mL
Purification	IgG fraction
Storage buffer	PBS, pH 7.5
Contains	5mM sodium azide
Storage conditions	4° C, store in dark
RRID	AB_221477

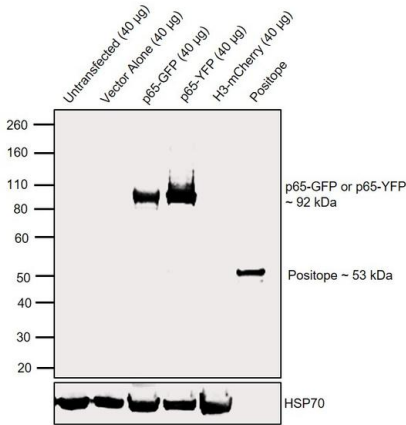
Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	4 Publications
Immunohistochemistry (IHC)	1:200-1:1,000	154 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	15 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-	3 Publications
Immunocytochemistry (ICC/IF)	1-10 µg/mL	48 Publications
Flow Cytometry (Flow)	-	11 Publications
ChIP assay (ChIP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	10 Publications

Product Specific Information

To achieve appropriate staining results on formalin-fixed, paraffin embedded tissue sections, protease Type XIV (Actinase E) pretreatment is required. The recommended dilution and incubation for protease is 1-2 mg/mL at 37°C for 10 minutes. Other enzyme and Heat Induced Epitope Retrieval pre-treatment methods may not be suitable for this particular antibody. Frozen sections have been successfully stained after fixation with acetone at 4°C.

GFP Antibody (A-21311) in WB

Western Blot was performed using Anti-GFP Polyclonal Antibody, Alexa Fluor 488 (Product # A-21311) 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), p65-GFP, 40 µg (Lane 3), His-p65-YFP, 40 µg (Lane 4), H3-mCherry, 40 µg (Lane 5) and 25 ng Positope (Lane 6) 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 ~92 kDa band of p65-GFP were observed in transfected lysates on probing with primary antibody (1:2000 dilution) and 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). 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 4. No cross-reactivity was seen with mCherry (RFP family) expressing lysate.



Western Blot (4)

<div>Journal of virology</div> <div>Deubiquitinating Enzyme USP21 Inhibits HIV-1 Replication by Downregulating Tat Expression.</div> <div>"A-21311 was used in Western Blot to report a novel role of the deubiquitinase, USP21, in HIV-1 infection. USP21 represents a potentially useful target for the development of novel anti-HIV drugs."</div> <div>Authors: Gao W,Li G,Zhao S,Wang H,Huan C,Zheng B,Jiang C,Zhang W</div>	<div>Year</div> <div>2021</div> <div>Species Tag</div>
<div>EMBO reports</div> <div>TRIM21-mediated proteasomal degradation of SAMHD1 regulates its antiviral activity.</div> <div>"A-21311 was used in Western Blotting to show the antiviral activity of SAMHD1 is regulated by proteasomal degradation activated by E3 ubiquitin ligase TRIM21."</div> <div>Authors: Li Z,Huan C,Wang H,Liu Y,Liu X,Su X,Yu J,Zhao Z,Yu XF,Zheng B,Zhang W</div>	<div>Year</div> <div>2020</div> <div>Species Tag</div>

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Immunohistochemistry (154)

<div>Frontiers in molecular neuroscience</div> <div>Developing Fast, Red-Light Optogenetic Stimulation of Spiral Ganglion Neurons for Future Optical Cochlear Implants.</div> <div>"A-21311 was used in Immunohistochemistry-immunofluorescence to employ a fast variant of the red-light activated channelrhodopsin Chrimson (f-Chrimson) and different AAV variants to implement optogenetic SGN stimulation in Mongolian gerbils."</div> <div>Authors: Huet AT,Dombrowski T,Rankovic V,Thirumalai A,Moser T</div>	<div>Year</div> <div>2023</div> <div>Species Tag</div> <div>Dilution</div> <div>1:500</div>
<div>Frontiers in cellular neuroscience</div> <div>All-Optical Electrophysiology in hiPSC-Derived Neurons With Synthetic Voltage Sensors.</div> <div>"A-21311 was used in Immunohistochemistry to demonstrate the functionality of this method by measuring spontaneous and evoked activity in three independent hiPSC-derived neuronal cell lines with distinct genetic backgrounds."</div> <div>Authors: Puppo F,Sadegh S,Trujillo CA,Thunemann M,Campbell EP,Vandenbergh M,Shan X,Akkouh IA,Miller EW,Bloodgood BL,Silva GA,Dale AM,Einevoll GT,Djurovic S,Andreassen OA,Muotri AR,Devor A</div>	<div>Year</div> <div>2023</div> <div>Species Tag</div> <div>Dilution</div> <div>1:1000</div>

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More applications with references on thermofisher.cn

- IHC (P) (6)
- IHC (F) (15)
- IHC (Free) (3)
- ICC/IF (48)
- Flow (11)
- ChIP (1)
- Misc (10)

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