

# EIF2S1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 315 of Human EIF2 alpha
Form	Liquid
Concentration	0.63 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2544842

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:10,000	3 Publications
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-

## Product Specific Information

Recommended positive controls: A549, H1299, HCT-116, rat neuron, HeLa, N2a.

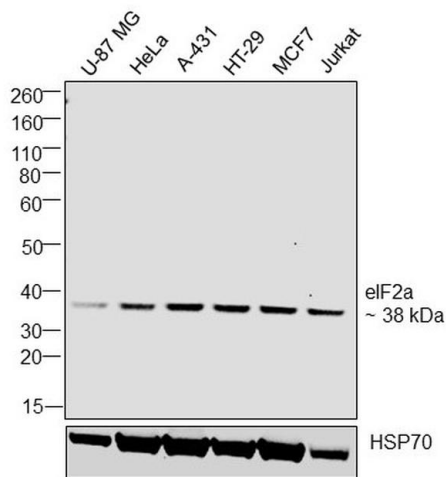
Predicted reactivity: Mouse (98%), Rat (98%), Xenopus laevis (92%), Chicken (97%), Rhesus Monkey (100%), Bovine (98%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For EIF2S1 Polyclonal Antibody

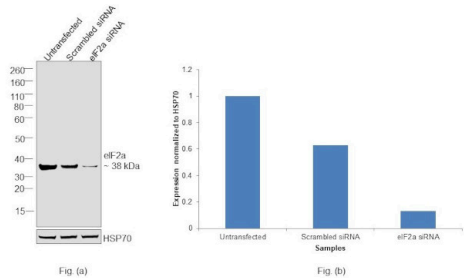
EIF2S1 Antibody (PA5-27366) in WB

Western Blot was performed using Anti-eIF2a Polyclonal Antibody (Product # PA5-27366) and a 38 kDa band corresponding to Eukaryotic translation initiation factor 2 subunit 1 was observed across tested cell lines. Whole cell extracts (40 µg lysate) of U-87 MG (Lane 1), HeLa (Lane 2), A-431 (Lane 3), HT-29 (Lane 4), MCF7 (Lane 5), Jurkat (Lane 6) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # LC2001) by iBlot® 2 Dry Blotting System (Product # IB21001). The Blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



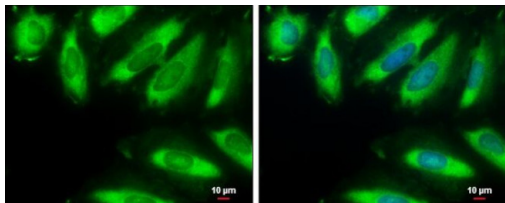
EIF2S1 Antibody (PA5-27366)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Eukaryotic translation initiation factor 2 subunit 1 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-eIF2a Polyclonal Antibody (Product # PA5-27366). {KD}



EIF2S1 Antibody (PA5-27366) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of eIF2a was performed in HeLa cells fixed in 4% paraformaldehyde at RT for 15 min. Green: eIF2a Polyclonal Antibody (Product # PA5-27366) diluted at 1:5000. Blue: Hoechst 33342 staining. Scale bar = 10 µm.



View more figures on [thermofisher.com](https://thermofisher.com)

Western Blot (3)

Antioxidants (Basel, Switzerland)	Year 2021
<b>Fisetin Protects HaCaT Human Keratinocytes from Fine Particulate Matter (PM<sub>2.5</sub>)-Induced Oxidative Stress and Apoptosis by Inhibiting the Endoplasmic Reticulum Stress Response.</b>	Species Human
"PA5-27366 was used in Western Blotting to suggest that fisetin inhibits PM2.5-induced apoptosis by inhibiting the ER stress response and production of ROS."	
Authors: Molagoda IMN,Kavinda MHD,Choi YH,Lee H,Kang CH,Lee MH,Lee CM,Kim GY	
Antioxidants (Basel, Switzerland)	Year 2021
<b>Protective Effect of Anthocyanin-Enriched Polyphenols from <i>Hibiscus syriacus</i> L. (Malvaceae) against Ultraviolet B-Induced Damage.</b>	Species Human
"PA5-27366 was used in Western Blotting to investigate the protective effect of AHs against UVB-induced damage."	Dilution 1:1000
Authors: Karunarathne WAHM,Molagoda IMN,Lee KT,Choi YH,Yu SM,Kang CH,Kim GY	

[View more WB references on thermofisher.com](#)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.