

GAPDH Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Mouse, Non-human primate, Rat
Published Species	Rat, Insect, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide: A(126) DAPMFVMGVN HEKY(140)
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2107311

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:5,000	64 Publications
Control (Ctrl)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

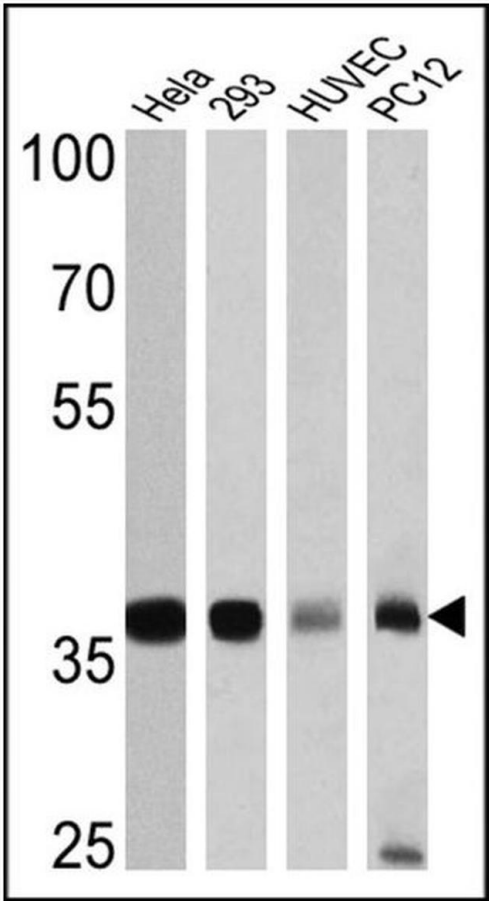
Product Specific Information

PA1-987 detects rat GAPDH. Shares 100% sequence homology with human and mouse.

PA1-987 has been used successfully in Western blotting. By Western blot this antibody specifically detects a ~36 kDa protein representing GAPDH.

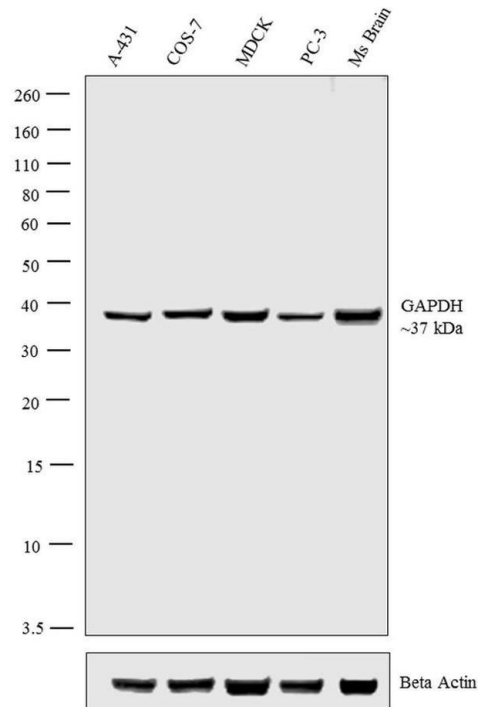
PA1-987 immunizing peptide corresponds to amino acid residues 126-140 from human GAPDH.

Product Images For GAPDH Polyclonal Antibody



GAPDH Antibody (PA1-987) in WB

Western blot analysis of GAPDH was performed by loading 25 µg of HeLa (lane 1), 293 (lane 2), HUVEC (lane 3) and PC12 (lane 4) cell lysates onto an SDS polyacrylamide gel. Proteins were transferred to a PVDF membrane and blocked at 4°C overnight. The membrane was probed with a GAPDH polyclonal antibody (Product # PA1-987) at a dilution of 1:3000 overnight at 4°C, washed in TBST, and probed with an HRP-conjugated secondary antibody for 1 hr at room temperature in the dark. Chemiluminescent detection was performed using Pierce ECL Plus Western Blotting Substrate (Product # 32132). Results show a band at ~36 kDa.



GAPDH Antibody (PA1-987) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A-431 (Lane 1), COS-7 (Lane 2), MDCK (Lane 3), PC-3 (Lane 4) and tissue extract (30 µg lysate) of Ms Brain (Lane 5). The blot was probed with Anti-GAPDH Polyclonal Antibody (Product # PA1-987, 1:1,000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 37 kDa band corresponding to GAPDH was observed across the cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10% Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).

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Western Blot (64)

Biotechnology for biofuels	Year 2024
CRISPR-Cas9-enabled genetic disruptions for understanding ethanol and ethyl acetate biosynthesis in <i>Kluyveromyces marxianus</i>.	
"Published figure using GAPDH polyclonal antibody (Product # PA1-987) in Western Blot"	
Authors: Löbs AK,Engel R,Schwartz C,Flores A,Wheeldon I	
International journal of molecular sciences	Year 2023
Environmental Enrichment Promotes Transgenerational Programming of Uterine Inflammatory and Stress Markers Comparable to Gestational Chronic Variable Stress.	Species Rat
"PA1-987 was used in Western Blotting to find that CVS is transmitted across generations and induces inflammatory changes in the uterus."	Dilution 1:5000
Authors: Lopes NA,Ambeskovic M,King SE,Faraji J,Soltanpour N,Falkenberg EA,Scheidl T,Patel M,Fang X,Metz GAS,Olson DM	

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

Control (1)

Developmental cell	Year 2019
CENP-A Ubiquitylation Is Indispensable to Cell Viability.	
"PA1-987 was used in Control to show that the Flag-tagged or untagged CENP-A K124R mutant is lethal."	Species Human
Authors: Niikura Y,Kitagawa R,Fang L,Kitagawa K	

Miscellaneous PubMed (1)

Free radical biology & medicine	Year 2021
Aging lens epithelium is susceptible to ferroptosis.	
"PA1-987 was used in RT-qPCR to explore the lens epithelial cell's (LEC) susceptibility to ferroptosis after documentation has concluded that aged and cataractous human lenses manifest with increased reactive oxygen species (ROS) formation, elevated lipid peroxidation, and accumulative intracellular redox-active iron, constituting the three hallmarks of ferroptosis during aging and cataractogenesis."	Species Mouse
Authors: Wei Z,Hao C,Huangfu J,Srinivasagan R,Zhang X,Fan X	

More applications with references on thermofisher.com

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