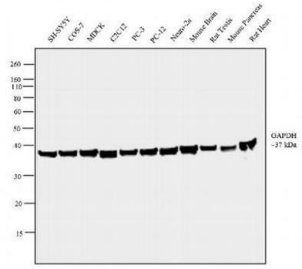
GAPDH Monoclonal Antibody (6C5)

Product Details	
Size	100 µg
Species Reactivity	Amphibian, Dog, Chicken, Fish, Human, Mouse, Non-human primate, Rabbit, Rat
Published Species	Rat, Pig, Yeast, Non-human primate, Insect, Amphibian, Nematode, Bovine, Hamster, Zebrafish, Human, Mouse, Chicken, Xenopus, Dog, C. elegans, Fruit fly
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	6C5
Conjugate	Unconjugated
Immunogen	Purified rabbit muscle GAPDH (whole molecule).
Form	Liquid
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	Maintain refrigerated at 2-8°C for up to 1 month. For long term storage store at -20°C
RRID	AB_2536381

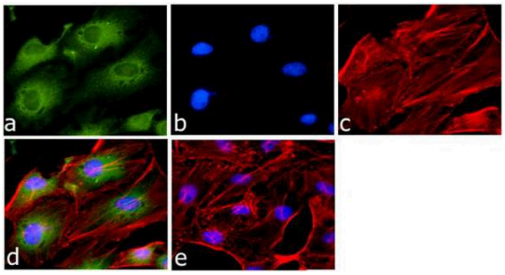
Applications	Tested Dilution	Publications
Western Blot (WB)	3 µg/mL	570 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunocytochemistry (ICC/IF)	1 µg/mL	5 Publications
Immunoprecipitation (IP)	-	2 Publications
Functional Assay (FN)	-	1 Publication
Control (Ctrl)	-	1 Publication
Dot blot (DB)	-	1 Publication
Miscellaneous PubMed (Misc)	-	30 Publications

Product Images For GAPDH Monoclonal Antibody (6C5)



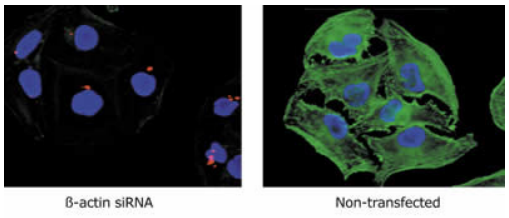
GAPDH Antibody (AM4300) in WB

Western blot analysis was performed on whole cell extracts (30µg lysate) of SH-SY5Y (Lane 1), COS-7 (Lane 2), MDCK (Lane 3), C2C12 (Lane 4), PC-3 (Lane 5), PC-12 (Lane 6), Neuro-2a (Lane 7), tissue extracts of Mouse Brain (Lane 8), Rat Testis (Lane 9), Mouse Pancreas (Lane 10) and Rat Heart (Lane 11). The blot was probed with Anti-GAPDH Mouse Monoclonal Antibody (Product # AM4300, 2µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25µg/mL, 1:500 dilution). A 37 kDa band corresponding to GAPDH was observed across the cell lines and tissues tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE®12 % Bis-Tris gel (Product # NP0342BOX), 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).



GAPDH Antibody (AM4300) in ICC/IF

Immunofluorescence analysis of GAPDH was done on 70% confluent log phase HeLa cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with GAPDH Mouse Monoclonal Antibody (Product # AM4300) at 1 µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing perinuclear and cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



GAPDH Antibody (AM4300) in ICC/IF

An siRNA targeting ß-actin was labeled with Cy™3 using the Silencer™ siRNA Labeling Kit. The labeled siRNA was transfected into HeLa cells and cells were analyzed 96 hours later. Green: ß-actin protein detected with anti-ß-actin (Ambion) and a FITC labeled secondary antibody. Red: Cy3 labeled siRNA. Blue: DAPI stained nuclei. (Cy™3 is a trademark of Amersham Biosciences.)

614 References

Western Blot (570)

Frontiers in physiology

Mitochondrial Dysfunction Is an Early Consequence of Partial or Complete Dystrophin Loss in *mdx* Mice.

"AM4300 was used in Western Blotting to indicate a mitochondrial and metabolic phenotype in both male and female mdx mice prior to the onset of muscle fiber abnormalities, potentially suggesting an early mitochondrial role in the etiology of this disease."

Authors: Moore TM,Lin AJ,Strumwasser AR,Cory K,Whitney K,Ho T,Ho T,Lee JL,Rucker DH,Nguyen CQ,Yackly A, Mahata SK,Wanagat J,Stiles L,Turcotte LP,Crosbie RH,Zhou Z

Year 2023

Species Mouse

Leukemia

Nanoparticle-mediated targeting of the fusion gene RUNX1/ETO in t(8;21) -positive acute myeloid leukaemia.

"AM4300 was used in Western Blotting to provide proof for the feasibility of targeting RUNX1/ETO in a pre-clinical setting and support the further development of siRNA-LNPs for the treatment of fusion gene-driven malignancies."

Authors: Issa H,Swart LE,Rasouli M,Ashtiani M,Nakjang S,Jyotsana N,Schuschel K,Heuser M,Blair H,Heidenreich O

Year 2023

Species Human

Dilution 1:10000

View more WB references on thermofisher.cn

Immunohistochemistry (4)

eLife

Multiple 9-1-1 complexes promote homolog synapsis, DSB repair, and ATR signaling during mammalian meiosis.

"AM4300 was used in Immunohistochemistry, Western Blot to establish critical roles for both canonical and alternative 9-1-1 complexes in meiotic ATR activation and successful prophase I completion."

Authors: Pereira C,Arroyo-Martinez GA,Guo MZ,Downey MS,Kelly ER,Grive KJ,Mahadevaiah SK,Sims JR,Faca VM, Tsai C,Schiltz CJ,Wit N,Jacobs H,Clark NL,Freire R,Turner J,Lyndaker AM,Brieno-Enriquez MA,Cohen PE,Smolka MB, Weiss RS

Year 2022

Species Mouse

Dilution 1:5000

eLife

Induction of osteogenesis by bone-targeted Notch activation.

"AM4300 was used in Immunohistochemistry to propose that activation of Notch signaling by bone-targeted fusion proteins might be therapeutically useful and can avoid detrimental effects in Notch-dependent processes in other organs."

Authors: Xu C,Dinh VV,Kruse K,Jeong HW,Watson EC,Adams S,Berkenfeld F,Stehling M,Rasouli SJ,Fan R,Chen R, Bedzhov I,Chen Q,Kato K,Pitulescu ME,Adams RH

Year 2022

Species Mouse

Dilution 1:1000

View more IHC references on thermofisher.cn

More applications with references on thermofisher.cn

ICC/IF (5) **IP (2)** **FN (1)** **Ctrl (1)** **DB (1)** **Misc (30)**