

GAPDH Monoclonal Antibody (258)

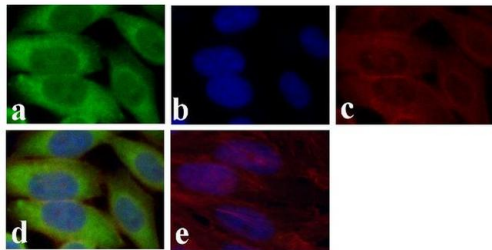
Product Details	
Size	100 µg
Species Reactivity	Bovine, Horse, Cat, Human, Non-human primate, Sheep, Pig
Published Species	Human, Mouse, Rhesus monkey
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	258
Conjugate	Unconjugated
Immunogen	Recombinant protein derived from the C-terminus region of human GAPDH protein
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2532218

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	14 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:200	-
Immunocytochemistry (ICC/IF)	1-2 µg/mL	1 Publication
Immunoprecipitation (IP)	Assay-dependent	-
Miscellaneous PubMed (Misc)	-	2 Publications

Product Images For GAPDH Monoclonal Antibody (258)

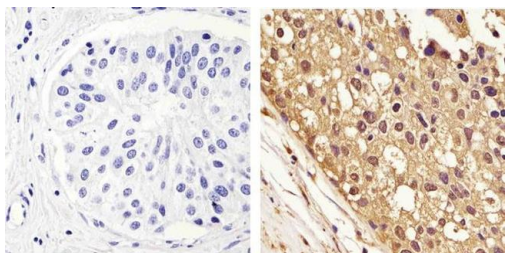
GAPDH Antibody (437000) in ICC/IF

Immunofluorescent 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 # 437000) at 1 µg/mL and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Rabbit Anti-Mouse IgG Secondary Antibody (Product # A-11059) at a dilution of 1:400 for 30 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 594 Phalloidin (Product # A12381). Panel d is a merged image showing cytoplasmic localization. Panel e shows no primary antibody control. The images were captured at 20X magnification.



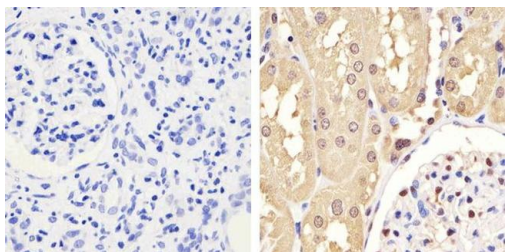
GAPDH Antibody (437000) in IHC (P)

Immunohistochemistry analysis of GAPDH showing staining in the cytoplasm and nucleus of paraffin-embedded human breast carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a GAPDH monoclonal antibody (Product # 437000) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



GAPDH Antibody (437000) in IHC (P)

Immunohistochemistry analysis of GAPDH showing staining in the cytoplasm and nucleus of paraffin-embedded human kidney tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a GAPDH monoclonal antibody (Product # 437000) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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Western Blot (14)

Cell death & disease

High-throughput screening for natural compound-based autophagy modulators reveals novel chemotherapeutic mode of action for arzanol.

"437000 was used in Western Blot to search for autophagy-modulating compounds for possible cancer therapy using flow cytometry-based high-throughput screening."

Authors: Deitersen J, Berning L, Stuhldreier F, Ceccacci S, Schlütermann D, Friedrich A, Wu W, Sun Y, Böhler P, Berleth N, Mendiburo MJ, Seggewiß S, Anand R, Reichert AS, Monti MC, Proksch P, Stork B

Species
Human

Dilution
Not Cited

Year
2021

Scientific reports

HIF independent mechanisms in renal carcinoma cells modulate divergent outcomes in fibronectin assembly mediated by hypoxia and CoCl₂.

"437000 was used in Immunocytochemistry-immunofluorescence to systematically reexamine the role of hypoxia mimetics as experimental substitutes for hypoxia and provides new findings on HIF stabilization and the FN matrix in the context of renal cancer."

Authors: Magdaleno C, Dixon L, Rajasekaran N, Varadaraj A

Species
Human

Dilution
Not Cited

Year
2020

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

Immunocytochemistry (1)

Scientific reports

HIF independent mechanisms in renal carcinoma cells modulate divergent outcomes in fibronectin assembly mediated by hypoxia and CoCl₂.

"437000 was used in Immunocytochemistry-immunofluorescence to systematically reexamine the role of hypoxia mimetics as experimental substitutes for hypoxia and provides new findings on HIF stabilization and the FN matrix in the context of renal cancer."

Authors: Magdaleno C, Dixon L, Rajasekaran N, Varadaraj A

Species
Human

Dilution
Not Cited

Year
2020

Miscellaneous PubMed (2)

Journal of proteome research

Quantitative proteomics of synaptic and nonsynaptic mitochondria: insights for synaptic mitochondrial vulnerability.

"437000 was used in western blot to study the susceptibility of synaptic mitochondria to damage."

Authors: Stauch KL, Purnell PR, Fox HS

Species
Mouse

Dilution
1:10000

Year
2014

More applications with references on thermofisher.com

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