

Anti-GAPDH Rabbit Monoclonal Antibody

Catalog Number: M00227-1

About GAPDH

C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates.

Overview

Product Name	Anti-GAPDH Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GAPDH Rabbit Monoclonal Antibody catalog # M00227-1. Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Monkey, Mouse, Rat.
Application	Flow Cytometry, IF, IHC, ICC, WB
Clonality	Monoclonal BG-7
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P04406

Technical Details

Immunogen	A synthesized peptide derived from human GAPDH
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used:

	WB 1:3000-1:10000 IHC 1:100-1:250 ICC/IF 1:100-1:250 FC 1:50
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Anti-GAPDH Rabbit Monoclonal Antibody (M00227-1) Images

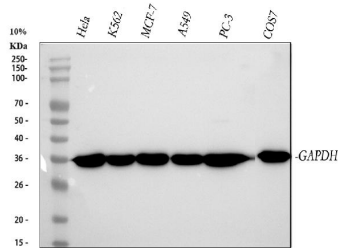


Figure 1. Western blot analysis of GAPDH using anti-GAPDH antibody (M00227-1).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Hela whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: human MCF-7 whole cell lysates,
Lane 4: human A549 whole cell lysates,
Lane 5: human PC-3 whole cell lysates,
Lane 6: monkey COS-7 whole cell lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GAPDH antigen affinity purified monoclonal antibody (Catalog # M00227-1) at 1:3000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GAPDH at approximately 36 kDa. The expected band size for GAPDH is at 36 kDa.

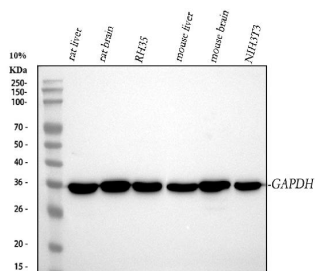
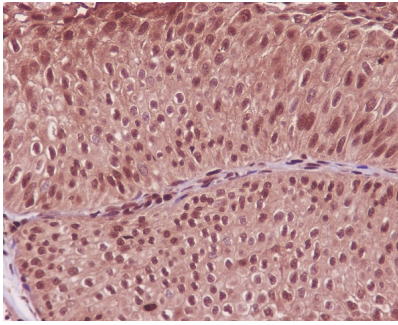


Figure 2. Western blot analysis of GAPDH using anti-GAPDH antibody (M00227-1).

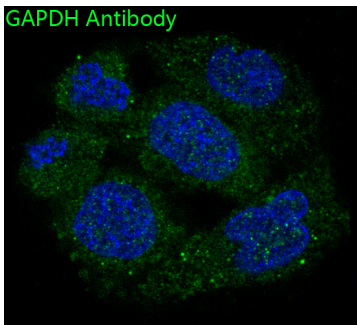
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat liver tissue lysates,
Lane 2: rat brain tissue lysates,
Lane 3: rat RH35 whole cell lysates,
Lane 4: mouse liver tissue lysates,
Lane 5: mouse brain tissue lysates,
Lane 6: mouse NIH/3T3 whole cell lysates.

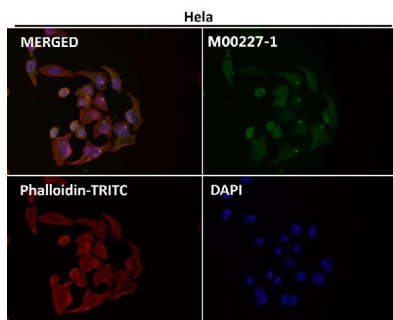
After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GAPDH antigen affinity purified monoclonal antibody (Catalog # M00227-1) at 1:3000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GAPDH at approximately 36 kDa. The expected band size for GAPDH is at 36 kDa.



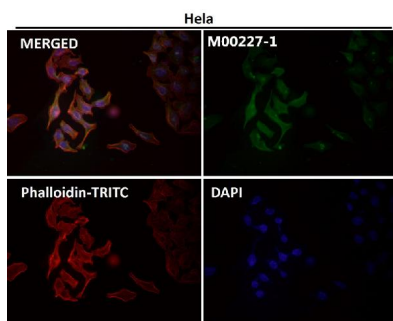
Immunohistochemical analysis of paraffin-embedded human bladder cancer, using GAPDH Antibody.



Immunofluorescent analysis of HeLa cells, using GAPDH Antibody.



Immunofluorescent analysis using the Antibody at 1:50 dilution.



Immunofluorescent analysis using the Antibody at 1:50 dilution.

150 Publications Citing This Product

1. PubMed ID: 31173299, Wang J,Fang Y,Liu YF,Wang X,Wang XL,Wang RY,Meng ZD.MiR- 154 inhibits cells proliferation and metastasis in melanoma by targeting AURKA and serves as a novel prognostic indicator.Eur Rev Med Pharmacol Sci.2019 May;23(10):4275-4284.doi:10.26355/eurev_201905_17932.PMID:31173299.

2. PubMed ID: 31058194, Duan Y,Tan Z,Yang M,Li J,Liu C,Wang C,Zhang F,Jin Y,Wang Y,Zhu L.PC-3-Derived Exosomes Inhibit Osteoclast Differentiation by Downregulating miR-214 and Blocking NF-kappaB Signaling Pathway.Biomed Res Int.2019 Apr 1;2019:8650846.doi:10.1155/2019/8650846. PMID:31058194;PMCID:PMC6463683.

3. PubMed ID: 31261950, Huang W,Guo L,Zhao M,Zhang D,Xu H,Nie Q.The Inhibition on MDFIC and PI3K/AKT Pathway Caused by miR-146b-3p Triggers Suppression of Myoblast Proliferation and Differentiation and Promotion of Apoptosis.Cells.2019 Jun 29;8(7):656.doi:10.3390/cells8070656.PMID:31261950; PMCID:PMC6678156.

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