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10-10011: Monoclonal Antibody to GAPDH (Clone: ABM22C5)

Clonality: Monoclonal
Clone Name: ABM22C5
Application: IHC,WB

Reactivity: Mouse, Human

 Gene :
 GAPDH

 Gene ID :
 2597

 Uniprot ID :
 P04406

 Format :
 Purified

Alternative Name: GAPDH,GAPD,CDABP0047,OK/SW-cl.12

Isotype: Mouse IgG1 Kappa

Immunogen Information: A partial length recombinant GAPDH protein (amino acids 120-320) was used as the immunogen

for this antibody.

Description

GAPDH (Glyceraldehyde-3-Phosphate Dehydrogenase) is an enzyme best known for its role in glycolysis. However, extraglycolytic functions of GAPDH have been described, including regulation of protein expression via RNA binding. GAPDH binds to numerous AREs (adenine-uridine rich elements) from various mRNA 3'-untranslated regions in vitro and in vivo despite its lack of a canonical RNA binding motif. GAPDH specifically catalyzes the simultaneous phosphorylation and oxidation of glyceraldehyde 3-phosphate using NAD+ (Nicotinamide Adenine Dinucleotide) as a cofactor to produce glycerate 1,3-biphosphate and NADH. In addition to its role in energy production, GAPDH has been implicated in many cellular processes including DNA repair tRNA export, membrane fusion and transport, endocytosis and nuclear membrane assembly, and cell death.

Product Info

Amount : 25 μg / 100 μg

Purification: Protein G Chromatography

Content: 25 μg in 50 μl/100 μg in 200 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium

azide is highly toxic.

Storage condition:

Storage condition:

Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Western blot analysis: 0.5-2 µg/ml, Immunohistochemical analysis: 5 µg/ml



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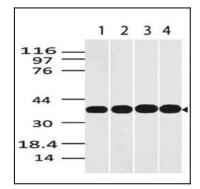


Figure-1: Western blot analysis of GAPDH. Anti- GAPDH antibody (Clone: ABM22C5) was used at $0.5 \mu g/ml$ on (1) Panc-1, (2) EL-4, (3) Jurkat and (4) HepG2 lysates.

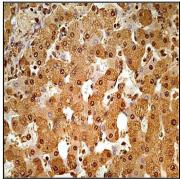


Figure-2 : Immunohistochemical analysis of GAPDH in human Liver tissue using GAPDH antibody (Clone: ABM22C5) at 3 μ g/ml.

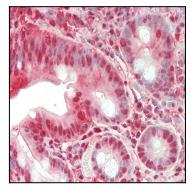


Figure-3: Immunohistochemical analysis of GAPDH in human Small intestine tissue using GAPDH antibody (Clone: ABM22C5) at 10 µg/ml.

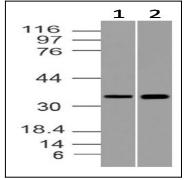


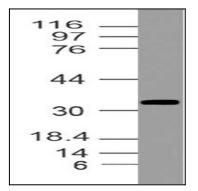
Figure-4: Western blot analysis of GAPDH. Anti- GAPDH antibody (Clone: ABM22C5) was used at 4 μ g/ml on (1) CHO-K1 and (2) CHO/PD1 transfected Lysates.







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Figure-5: Western blot analysis of GAPDH. Anti- GAPDH antibody (Clone: ABM22C5) was used at 4 µg/ml on Raw cell Lysate.

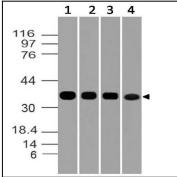


Figure-6: Western blot analysis of GAPDH. Anti- GAPDH antibody (Clone: ABM22C5) was used at 1 µg/ml on (1) h Lung, (2) h Testis, (3) h Liver and (4) h Ovary lysates.

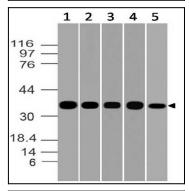


Figure-7: Western blot analysis of GAPDH. Anti- GAPDH antibody (Clone: ABM22C5) was used at 1 μ g/ml on (1) h Brain, (2) m Brain, (3) h Pancrease, (4) h Kidney and (5) m Skeletal Muscle lysates.

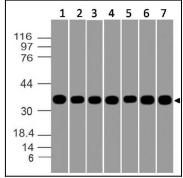


Figure-8: Western blot analysis of GAPDH. Anti- GAPDH antibody (Clone: ABM22C5) was used at 1 μ g/ml on (1) PC3, (2) A549, (3)THP1, (4) Ramos, (5) HCT-116, (6) Raji and (7) MOLT-4 lysates.



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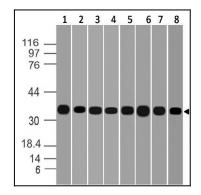


Figure-9: Western blot analysis of GAPDH. Anti- GAPDH antibody (Clone: ABM22C5) was used at 1 μ g/ml on (1) U937, (2) Saos2, (3) A431, (4) K562, (5) U87, (6) MCF-7, (7) Snu1 and (8) Jurkat lysates.