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11-13024: Polyclonal Antibody to GAPDH

Clonality :	Polyclonal
Application :	WB
Reactivity :	Rat,Mouse,Human
Gene :	GAPDH
Gene ID :	2597
Uniprot ID :	P04406
Format :	Purified
Alternative Name :	GAPDH, GAPD, CDABP0047, OK/SW-cl.12
Isotype :	Rabbit IgG
Immunogen Information :	A partial length recombinant GAPDH protein 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, extra-glycolytic 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 A 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 :	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: 1-2 µg/ml

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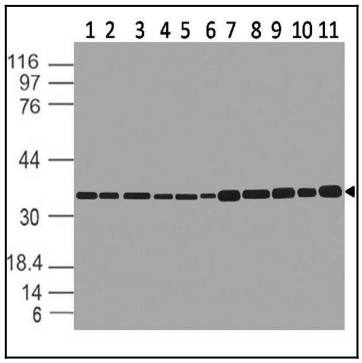

Figure-1: Western blot analysis of GAPDH. Anti- GAPDH antibody (11-13024) was used at 1 µg/ml on (1) h Brain, (2) h Heart, (3) h Small Intestine, (4) h Kidney, (5) h Liver, (6) h Lung, (7) h Skeletal Muscle, (8) h Stomach, (9) h Spleen, (10) h Ovary, (11) h Testis lysates.

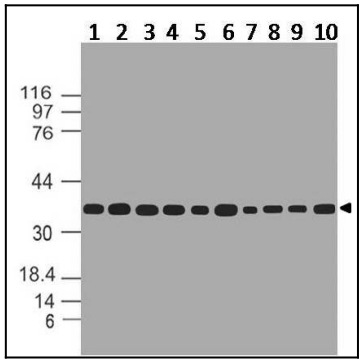

Figure-2: Western blot analysis of GAPDH. Anti- GAPDH antibody (11-13024) was used at 1 µg/ml on (1) r Brain, (2) r Heart, (3) r Kidney, (4) r Liver, (5) r Lung, (6) r Skeletal Muscle, (7) r Stomach, (8) r Spleen, (9) r Ovary, (10) r Testis lysates.

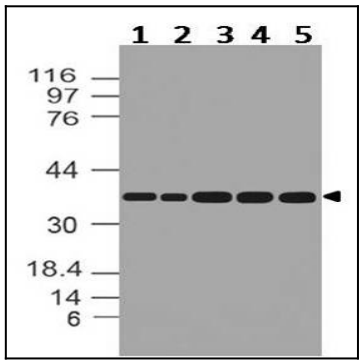

Figure-3: Western blot analysis of GAPDH. Anti- GAPDH antibody (11-13024) was used at 1 µg/ml on (1) m Kidney, (2) m Liver, (3) m Lung, (4) m Skeletal Muscle and (5) m Testis lysates.

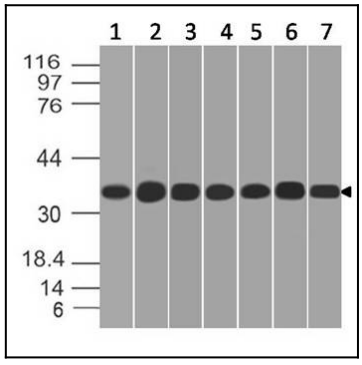

Figure-4: Western blot analysis of GAPDH. Anti- GAPDH antibody (11-13024) was used at 1 µg/ml on (1) 3T3, (2) Hela, (3) Jurkat, (4) PC3, (5) HCT-116, (6) Snu1 and (7) PANC-1 lysates.

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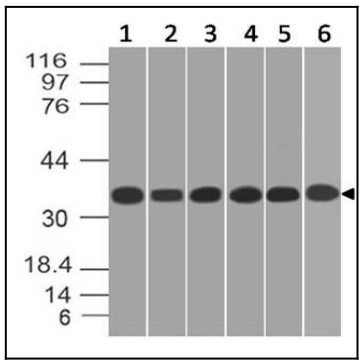

Figure-5: Western blot analysis of GAPDH. Anti- GAPDH antibody (11-13024) was used at 1 µg/ml on (1) K562, (2) A549, (3) MCF-7, (4) 293, (5) A431 and (6) HepG2 lysates.