Datasheet for ABIN5518757

anti-GAPDH antibody (AA 136-335)

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Overview

Quantity:	100 µg
Target:	GAPDH
Binding Specificity:	AA 136-335
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GAPDH antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Glyceraldehyde-3-phosphate dehydrogenase(GAPDH) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human GAPDH recombinant protein (Position: N136-E335). Human GAPDH shares 95% and 94.5% amino acid (aa) sequence identity with mouse and rat GAPDH, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Glyceraldehyde-3-phosphate dehydrogenase(GAPDH) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: glyceraldehyde-3-phosphate dehydrogenase Protein Name: Glyceraldehyde-3-phosphate dehydrogenase

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	GAPDH
Alternative Name:	GAPDH (GAPDH Products)
Background:	Glyceraldehyde 3-phosphate dehydrogenase (abbreviated as GAPDH or less commonly as G3PDH) is an enzyme of ~37 kDa that catalyzes the sixth step of glycolysis and thus serves to break down glucose for energy and carbon molecules. This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. GAPDH is mapped to 12p13.31. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The product of this gene catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). The encoded protein has additionally been identified to have uracil DNA glycosylase activity in the nucleus. Synonyms: EC 1.2.1.12 | EC1.2.1.12 | G3P | GAPD | GAPDH | P04406
Gene ID:	2597
UniProt:	P04406

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:

Wang, Xue, Zhang, Bu, Zhu, Lai: "Autophagy protects ovarian cancer-associated fibroblasts against oxidative stress." in: **Cell cycle (Georgetown, Tex.)**, Vol. 15, Issue 10, pp. 1376-85, (2018) (PubMed).

Duan, Man, Tang, Yao, Tao, Yu, Liang, Makawana, Zou, Wang, Zhu: "Design, Synthesis and Antitumor Activity of Novel link-bridge and B-Ring Modified Combretastatin A-4 (CA-4) Analogues as Potent Antitubulin Agents." in: **Scientific reports**, Vol. 6, pp. 25387, (2018) (PubMed).

Liu, Kuang, Wu, Jin, Sun: "A novel polysaccharide from Sargassum integerrimum induces apoptosis in A549 cells and prevents angiogensis in vitro and in vivo." in: **Scientific reports**, Vol. 6, pp. 26722, (2018) (PubMed).

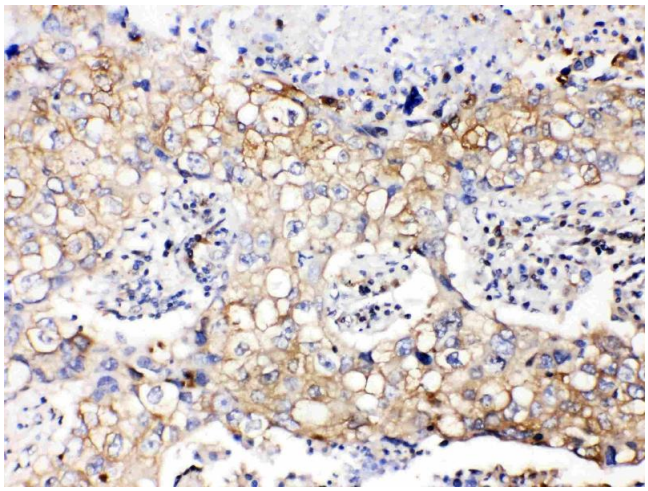
Zou, Duan, Wang, Gao, Chen, Ou, Liang, Wang, Yuan, Wang, Zhu: "DYT-40, a novel synthetic 2-styryl-5-nitroimidazole derivative, blocks malignant glioblastoma growth and invasion by inhibiting AEG-1 and NF-κB signaling pathways." in: **Scientific reports**, Vol. 6, pp. 27331, (2018) (PubMed).

Guo, Li, Qian, Bi, He, Jin, Luo, Li, Meng, Li: "TGEV infection up-regulates FcRn expression via activation of NF-κB signaling." in: **Scientific reports**, Vol. 6, pp. 32154, (2018) (PubMed).

Publications

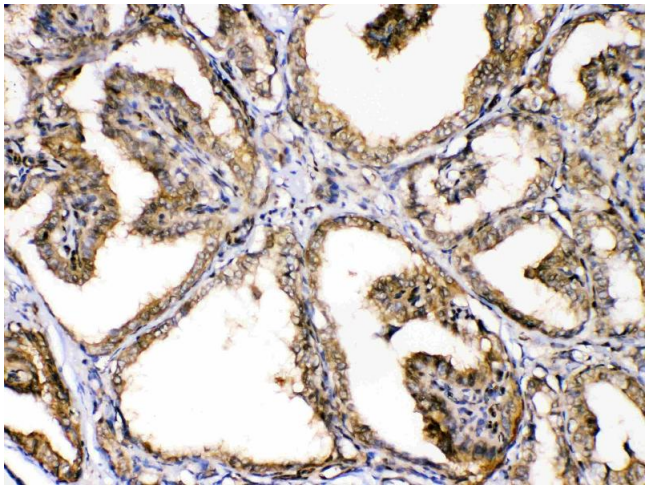
There are more publications referencing this product on: Product page

Images



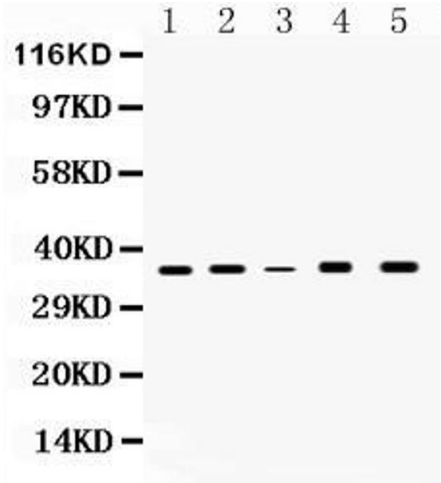
Immunohistochemistry

Image 1. GAPDH was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti-GAPDH Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Immunohistochemistry

Image 2. GAPDH was detected in paraffin-embedded sections of human thyroid cancer tissues using rabbit anti-GAPDH Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western Blotting

Image 3. Western blot analysis of GAPDH expression in rat brain extract (Lane 1), rat kidney extract (Lane 2), mouse kidney extract (Lane 3), HELA whole cell lysates (Lane 4) and MCF-7 whole cell lysates(Lane 5). GAPDH at 36KD was detected using rabbit anti- GAPDH Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).