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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	
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	
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 \sim 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 adening
	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:	D04406
Omi Tot.	P04406
Application Details	P04400
	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Mouse, Rat
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Application Details	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Mouse, Rat
Application Details	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
Application Details	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
Application Details	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.
Application Details	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.
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Application Details Application Notes: Comment: Restrictions:	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. Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Application Details Application Notes: Comment: Restrictions: Handling	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. Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P). For Research Use only

Handling

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.

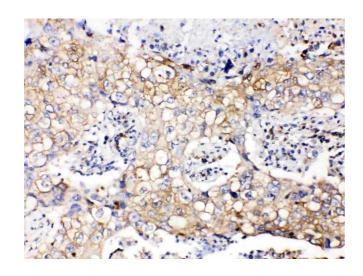
Publications

Product cited in:

Acar, Tayyar, Yuksel, Atis Aydin, Yıldırım, Ekiz, Dag, Topcu: "Increased maternal C1q/TNF-related protein-1 (CTRP-1) serum levels in pregnancies with preeclampsia." in: **The journal of maternal-fetal & neonatal medicine**, pp. 1-6, (2018) (PubMed).

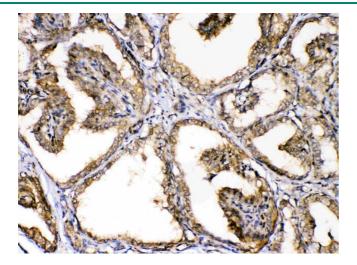
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Images



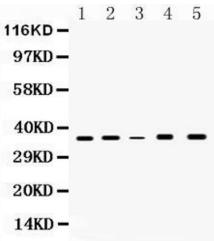
Immunohistochemistry

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 μ g/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 μ g/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 μ g/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).