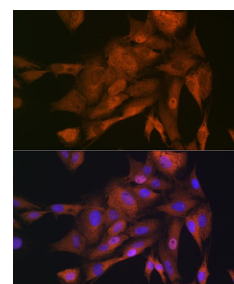
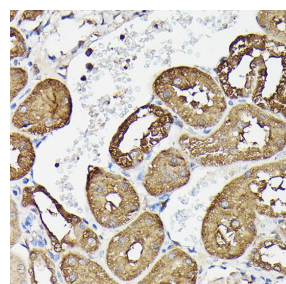
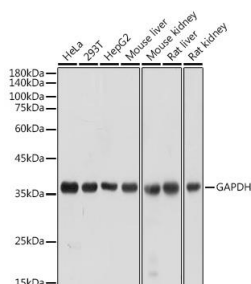


Cat. No:	AB-81594
Conjugate:	Unconjugated
Size:	100µg
Clone:	POLY
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-335 of human GAPDH (NP_002037.2).
Reactivity:	Hu, Ho, Cw, Pg, Ch, Rt, Ms Western Blot: 1:1000 - 1:10000 Immunohistochemistry: 1:50 - 1:100 Immunofluorescence: 1:50 - 1:100 Immunoprecipitation: 1:50 - 1:100
Applications:	
Molecular Weight:	36kDa
Purification:	Aff. Pur.
Synonyms:	G3PD;GAPD;HEL-S-162eP;GAPDH

Background: This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. 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. Also, this protein contains a peptide that has antimicrobial activity against *E. coli*, *P. aeruginosa*, and *C. albicans*. Studies of a similar protein in mouse have assigned a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophage. Many pseudogenes similar to this locus are present in the human genome. Alternative splicing results in multiple transcript variants.

Form:	Liquid
Buffer:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage:	Store at -20°C. Avoid freeze / thaw cycles.



Western blot analysis of extracts of various cell lines, using GAPDH antibody at 1:10000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL West Pico Plus.
Exposure time: 1s.

Immunohistochemistry of paraffin embedded rat kidney using GAPDH Rabbit pAb at dilution of 1:100 (40x lens).

Immunofluorescence analysis of C6 cells using GAPDH Rabbit pAb at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

References

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:Oncology Letters

Application:WB

IF:1.39

Species:Homo sapiens

PMID:29552157

Title:Vasculogenic mimicry in bladder cancer and its association with the aberrant expression of ZEB1

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:Molecular Cell

Application:IF

IF:14.714

Species:Homo sapiens

PMID:29727616

Title:The BUB3-BUB1 Complex Promotes Telomere DNA Replication

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:biochemical and biophysical research communications

Application:WB

IF:2.559

Species:Homo sapiens

PMID:29605298

Title:Micro124-mediated AHR expression regulates the inflammatory response of chronic rhinosinusitis (CRS) with nasal polyps

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:Inflammation

Application:WB, IF

IF:2.88

Species:Homo sapiens

PMID:30187339

Title:CDK5 Regulates PD-L1 Expression and Cell Maturation in Dendritic Cells of CRSwNP

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:Oncology reports

Application:WB

IF:2.97

Species:Homo sapiens

PMID:30320343

Title:Phosphorylation of nucleolin is indispensable to its involvement in the proliferation and migration of non-small cell lung cancer cells.

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:Inflammation

Application:WB

IF:2.88

Species:Homo sapiens

PMID:31041569

Title:Regulation of KDM2B and Brg1 on Inflammatory Response of Nasal Mucosa in CRSwNP

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:Oncology reports

Application:WB

IF:3.04

Species:Homo sapiens

PMID:31115582

Title:Cytokeratin 18 regulates the transcription and alternative splicing of apoptotic related genes and pathways in HeLa cells.

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:Nucleic Acids Research

Application:WB, IF

IF:11.14

Species:Homo sapiens

PMID:31970402

Title:Cockayne syndrome group A and B proteins function in rRNA transcription through nucleolin regulation

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:The EMBO Journal

Application:WB

IF:11.22

Species:Homo sapiens

PMID:32368828

Title:RNA m6 A methylation regulates sorafenib resistance in liver cancer through FOXO3-mediated autophagy

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:Autophagy

Application:WB

IF:11.05

Species:Danio rerio

PMID:30205735

Title:CERKL regulates autophagy via the NAD-dependent deacetylase SIRT1

References for GAPDH Rabbit pAb

Product:GAPDH Rabbit pAb

Journal:Cells

Application:WB

IF:5.65

Species:Mus musculus

PMID:31614673

Title:Perilipin 5 Protects against Cellular Oxidative Stress by Enhancing Mitochondrial Function in HepG2 Cells

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