

GAPDH Polyclonal Antibody

Catalog No.	AC001	Category	Loading control Antibodies
Applications	WB, IHC, IF	Observed MW	36kDa
Cross-reactivity	Human, Mouse, Rat	Calculated MW	31kDa/36kDa

Immunogen Information

Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-335 of human GAPDH (NP_002037.2).
Gene ID	2597
Swiss prot	P04406
Synonyms	GAPDH; G3PD; GAPD; HEL-S-162eP; glyceraldehyde-3-phosphate dehydrogenase

Product information

Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Background

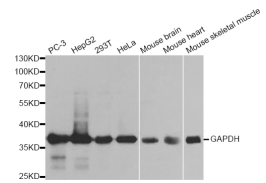
This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The product of this gene catalyzes an important energy-yielding step in carbohydrate 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.

Recommended Dilutions

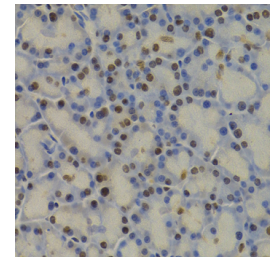
WB 1:1000 -
1:10000

IHC 1:50 - 1:100

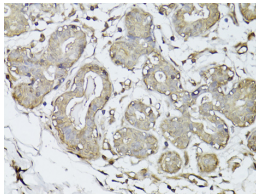
IF 1:20 - 1:50



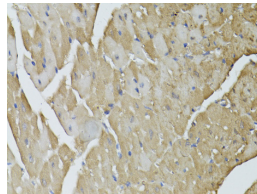
Western blot - GAPDH Polyclonal Antibody (AC001)



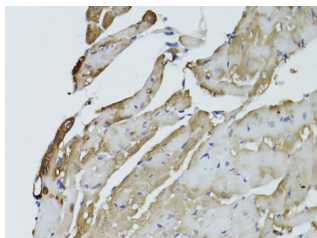
Immunohistochemistry - GAPDH Polyclonal Antibody (AC001)



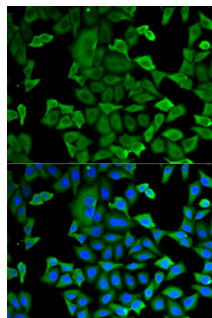
Immunohistochemistry - GAPDH Polyclonal Antibody (AC001)



Immunohistochemistry - GAPDH Polyclonal Antibody (AC001)



Immunohistochemistry - GAPDH Polyclonal Antibody (AC001)



Immunofluorescence - GAPDH Polyclonal Antibody (AC001)