# **GAPDH Rabbit mAb**

Catalog No.: A22420 Recombinant



# **Basic Information**

### **Observed MW**

36kDa

#### **Calculated MW**

36kDa

# Category

Primary antibody

### **Applications**

WB,IHC-P,IF/ICC,ELISA

### **Cross-Reactivity**

Human, Mouse, Rat

#### CloneNo number

ARC50882

# **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-P 1:50 - 1:200

**IF/ICC** 1:50 - 1:200

**ELISA** Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

# Immunogen Information

**Gene ID**2597

Swiss Prot
P04406

### **Immunogen**

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### **Synonyms**

G3PD; GAPD; HEL-S-162eP; GAPDH

## **Contact**

<b>a</b>	400-999-6126
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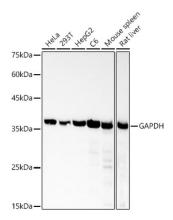
### **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

#### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

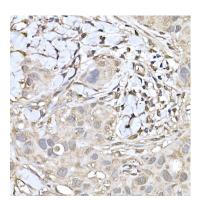


Western blot analysis of various lysates, using GAPDH Rabbit mAb (A22420) at 1:1000000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins:  $25\mu g$  per lane.

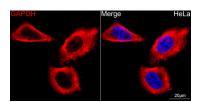
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20s.



Immunohistochemistry analysis of paraffinembedded Human breast cancer using GAPDH Rabbit mAb (A22420) at dilution of 1:100 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of HeLa cells using GAPDH Rabbit mAb (A22420, dilution 1:100) (Red). DAPI was used for nuclear staining (blue). Objective: 60x.