

## Rabbit Anti-GAPDH Monoclonal Antibody

DMAB35346 Rabbit(GAPDH)

Lot. No. (See product label)

### PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit Anti-GAPDH Monoclonal Antibody
<b>Antigen Description</b>	GAPDH (Glyceraldehyde-3-phosphate dehydrogenase) has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. It participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. GAPDH is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate.
<b>specificity</b>	A synthetic peptide corresponding to residues in human GAPDH was used as an immunogen.
<b>Target</b>	GAPDH
<b>Host</b>	Rabbit
<b>species</b>	Human
<b>Clone</b>	EPR6256
<b>Conjugation</b>	N/A
<b>Applications</b>	WB, ICC, IP, Flow Cyt
<b>MolecularWeight</b>	35kDa
<b>Usage recommendation</b>	WB: 1:10,000 - 50,000 ICC: 1:250 - 500 IP: 1:10 - 100 Flow Cyt: 1:10 - 100

### PACKAGING

<b>Buffer</b>	Antibody buffer, sodium azide, glycerol, and BSA. Stable for 12 months from date of receipt.
<b>Storage</b>	Store at -20 °C.
<b>Size</b>	100ul
<b>Warning</b>	Species cross-reactivity is based on WB analysis.

### ANTIGEN GENE INFORMATION

<b>Gene Name</b>	<a href="#">GAPDH glyceraldehyde-3-phosphate dehydrogenase [ Homo sapiens ]</a>
<b>Official Symbol</b>	GAPDH
<b>Synonyms</b>	GAPDH; glyceraldehyde-3-phosphate dehydrogenase; GAPD; aging-associated gene 9 protein; peptidyl-cysteine S-nitrosylase GAPDH; G3PD; MGC88685;
<b>GeneID</b>	<a href="#">2597</a>
<b>mRNA Refseq</b>	<a href="#">NM_001256799</a>
<b>Protein Refseq</b>	<a href="#">NP_001243728</a>
<b>MIM</b>	<a href="#">138400</a>

<b>UniProt ID</b>	P04406
<b>Chromosome Location</b>	12p13.31
<b>Pathway</b>	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>
<b>Function</b>	NAD binding; NADP binding; glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity; glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity; oxidoreductase activity; peptidyl-cysteine S-nitrosylase activity; protein binding; transferase activity;

## REFERENCES

1. The UniProt Consortium. The Universal Protein Resource (UniProt). Nucleic Acids Res. 38:D190-D195 (2010)