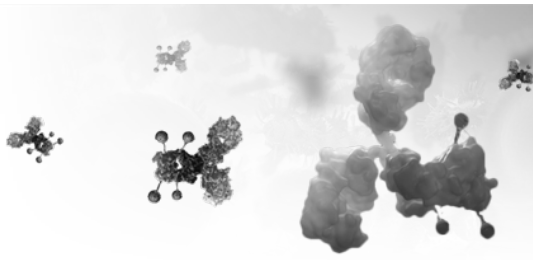

Anti-GADPH polyclonal antibody (DPAB2592RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Rabbit polyclonal to human glyceraldehyde-3-phosphate dehydrogenase.
Antigen Description	Glyceraldehyde-3-phosphate dehydrogenase(GAPDH) is a catalytic enzyme commonly known to be involved in glycolysis. The enzyme exists as a tetramer of identical 37kDa subunits. GAPDH catalyzes the reversible reduction of 1,3-bisphosphoglycerate to glyceraldehyde 3-phosphophate in the presence of NADPH. Apart from playing a key role in glycolysis, this ubiquitously expressed enzyme also displays other activities unrelated to its glycolytic function. GAPDH is reported to be involved in the processes of DNA replication, DNA repair, nuclear RNA export, membrane fusion and microtubule bundling. Other studies also provide evidence of GAPDH playing an essential part of the program of gene expression observed in apoptosis and as part of the cellular phenotype of age-related neurodegenerative diseases. On recent study, GAPDH has identified of the most oxidant sensitive cell proteins.
Immunogen	Sulfonylated peptide (KLH coupled) corresponding to the oxidation sensitive site sequence to human GADPH.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB
Cellular Localization	Cytoplasm Membrane
Positive Control	HeLa cell treated with H2O2

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Format	HEPES with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol.
Size	100 µl
Preservative	0.03% Sodium Azide
Storage	Store for 1 year at -20 °C from date of shipment.

GENE INFORMATION

Gene Name	GAPDH glyceraldehyde-3-phosphate dehydrogenase [Homo sapiens]
Synonyms	GAPDH; glyceraldehyde-3-phosphate dehydrogenase; G3PD; GAPD; MGC88685; OTTHUMP00000174431; EC 1.2.1.12; OTTHUMP00000174432; aging-associated gene 9 protein; EC 2.6.99.-; Peptidyl-cysteine S-nitrosylase GAPDH; CDABP0047; OK/SW-cl.12; Glyceraldehyde-3-phosphate dehydrogenase
Entrez Gene ID	2579
Protein Refseq	NP_002037
UniProt ID	O76087
Chromosome Location	12p13
Pathway	Alzheimer"s disease; Androgen Receptor Signaling Pathway; Gluconeogenesis; Glucose metabolism; Glycolysis (Embden-Meyerhof pathway), glucose => pyruvate; Glycolysis, core module involving three-carbon compounds; Dentatorubropallidoluysian atrophy (DRPLA); Metabolic pathways; Glycolysis/Gluconeogenesis; Metabolism of carbohydrates; Validated targets of C-MYC transcriptional activation; Metabolism of carbohydrates; gluconeogenesis mammals; glycolysis mammals
Function	NAD binding; NADH binding; glyceraldehyde-3-phosphate dehydrogenase (phosphorylating) activity; oxidoreductase activity; protein binding; peptidyl-cysteine S-nitrosylase activity; transferase activity

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