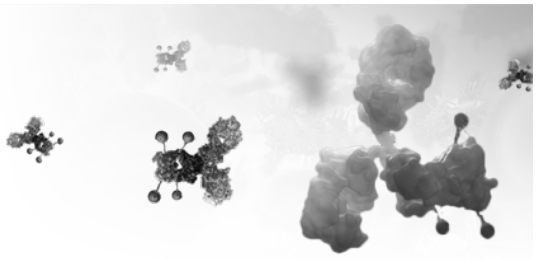

Anti-GAPDH (C-terminal) polyclonal antibody (CPBT-67419GH)

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

PRODUCT INFORMATION

Product Overview	This product recognises an epitope within the C-terminal (CT) region of glyceraldehyde- 3-phosphate dehydrogenase (GAPDH), a 36kD multifunctional protein whose main function is to catalyse the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate, in conjunction with inorganic phosphate and nicotinamide adenine dinucleotide (NAD). This reaction is an important energy yielding step in carbohydrate metabolism. GAPDH has also been shown to translocate to the nucleus under a variety of stressors, most of which are associated with oxidative stress, whereby it mediates cell death. A further report has shown that GAPDH binds to several proteins that are responsible for neurodegenerative diseases, such as amyloid precursor protein and Huntingtin.
Specificity	GAPDH
Immunogen	Peptide sequence C-HQVVSSDFNSDT corresponding to the C-terminal region of GAPDH (NP_002037.2).
Isotype	IgG
Source/Host	Goat
Species Reactivity	Horse, Human, Pig, Sheep
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Conjugate	Unconjugated
Applications	ELISA, WB
Format	Purified IgG - liquid

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Concentration	Lot specific
Size	100 µg
Preservative	0.02% Sodium Azide
Storage	Store at +4°C or at -20°C if preferred. Avoid repeated freezing and thawing as this may denature the antibody.

GENE INFORMATION

Gene Name	GAPDH glyceraldehyde-3-phosphate dehydrogenase [Homo sapiens (human)]
Official Symbol	GAPDH
Synonyms	GAPDH; glyceraldehyde-3-phosphate dehydrogenase; G3PD; GAPD; HEL-S-162eP; aging-associated gene 9 protein; peptidyl-cysteine S-nitrosylase GAPDH; epididymis secretory sperm binding protein Li 162eP; GAPDH;
Entrez Gene ID	2597
Protein Refseq	NP_001243728
UniProt ID	P04406
Chromosome Location	12p13
Pathway	Alzheimers disease; Alzheimers Disease; Biosynthesis of amino acids; Carbon metabolism; Disease; Gluconeogenesis; Gluconeogenesis, oxaloacetate => fructose-6P; Glucose metabolism;
Function	NAD binding; NADP binding; glyceraldehyde-3-phosphate dehydrogenase (NAD+) (phosphorylating) activity; identical protein binding; microtubule binding; peptidyl-cysteine S-nitrosylase activity; protein binding;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221