



Rabbit Polyclonal antibody to Glyceraldehyde 3-Phosphate Dehydrogenase

Catalogue No.:	R-1701-100
Description:	Glyceraldehyde 3-Phosphate Dehydrogenase (GAPDH) is a metabolic enzyme responsible for catalyzing one step in the glycolytic pathway, the reversible oxidative phosphorylation of glyceraldehyde 3-phosphate. GAPDH may have other roles in the activation of transcription and in the regulation of apoptosis as well as Alzheimer's disease and Huntington's disease. The immunogen used to raise this particular antibody was extensively purified pig GAPDH. This antibody can be used as a loading control for western blotting experiments, allowing comparison between the level of this protein and others in a cell or tissue.
Batch No.:	See product label
Unit size:	100 uL
Antigen:	Purified pig GAPDH
Antibody Type:	Polyclonal
Other Names:	Glyceraldehyde-3-phosphate dehydrogenase; GAPDH; GAPD; G3PDH; GPDH
Accession:	P04406 G3P_HUMAN; P00355 G3P_PIG;
Produced in:	Rabbit
Applications:	Western Blotting (WB) and Immunocytochemistry (ICC). A dilution of 1:10,000-1:30,000 is recommended for WB. Human GAPDH has a predicted length of 335 residues and a MW of 36 kDa. A dilution of 1:1,000-1:10,000 is recommended for ICC. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	Specific for the ~36-38kDa Glyceraldehyde 3-Phosphate Dehydrogenase (GAPDH) protein.
Species Against:	Human, Rat, Mouse, Bovine. It is expected that it will work on other mammal tissues.
Form:	Lyophilised rabbit serum with 0.5% sodium azide.
Appearance:	White powder
Reconstitution:	Reconstitute in sterile distilled water. Centrifuge to remove any insoluble material.
Storage:	After reconstitution of lyophilised antibody, aliquot and store at -20C for a higher stability. Avoid freeze-thaw cycles.
Expiry Date:	12 months after purchase
General References:	<ol style="list-style-type: none">1. Morgenegg G, Winkler GC, Hubscher U, Heizmann CW, Mous J, Kuenzle CC. Glyceraldehyde-3-phosphate dehydrogenase is a nonhistone protein and a possible activator of transcription in neurons. <i>J Neurochem.</i> 47:54-62 19862. Schulze H, Schuler A, Stuber D, Dobeli H, Langern H & Huber G. Rat brain glyceraldehyde-3-phosphate dehydrogenase interacts with the recombinant cytoplasmic domain of Alzheimer's beta-amyloid precursor protein. <i>J Neurochem.</i> 60:1915-22 19933. Burke JR, Enghild JJ, Martin ME, Jou Y-S, Myers RM, Roses AD, Vance JM & Strittmatter

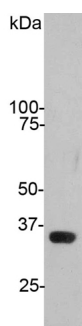
FOR RESEARCH USE ONLY



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WJ. Huntingtin and DRPLA proteins selectively interact with the enzyme GAPDH. Nature Med. 2: 347-350, 1996.

4. Dastoor Z. & Dreyer, J-L. Potential role of nuclear translocation of glyceraldehyde-3-phosphate dehydrogenase in apoptosis and oxidative stress. J. Cell Sci. 114:1643-1653 2001. 100:429-36 (2007).



HeLa cell extract blotted with rabbit anti-GAPDH. Note the single sharp band corresponding to GAPDH.

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