

## Anti-GAPDH antibody

<b>Cat. No.</b>	<b>AbC-2003</b>
<b>Size</b>	200ul
<b>Host Species</b>	Rabbit
<b>Cross reactivity</b>	Human
<b>Tested application</b>	ELISA, Western blot (Other application is not tested)
<b>Immunogen</b>	Synthetic peptide. VGVDSEGESEEGEE (435-450aa) of human GAPDH.
<b>Form</b>	Liquid
<b>Storage</b>	Store at -20°C.
<b>Purification</b>	Immunoaffinity chromatography purified.
<b>Concentration</b>	1mg/ml
<b>Storage buffer</b>	0.02% sodium azide, 50% glycerol in PBS
<b>Clonity</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Positive control</b>	A431 cell

### Background

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 is a ubiquitously expressed and has a molecular mass of 37 kD. It 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 enzyme exists as a tetramer of identical chains. Besides its functioning as a glycolytic enzyme in cytoplasm, recent evidence suggest that mammalian GAPDH is also involved in a great number of intracellular processes such as membrane fusion,

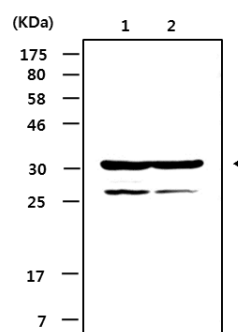
microtubule bundling, phosphotransferase activity, nuclear RNA export, DNA replication, and DNA repair. The protein may also have a role in the regulation of apoptosis, and interestingly migrates from the cytoplasm into the nucleus when cells become apoptotic.

### Recommended Dilution

ELISA	1/5000 – 1/10000
Western blot	1/5000 – 1/10000

*Optimal working dilutions must be determined by end user.*

### Image



Western blot analysis of cell lysate :

Lane 1: A431 cell lysate

Lane 2: BT-474 cell lysate

### Reference

- Fortun J, Dunn WA, Joy S, Li J, Notterpek L. *J. Neurosci.* 23:10672-10680, 2003.
- Morgenegg G, Winkler GC, Hubscher U, Heizmann CW, Mous J, Kuenzle CC. *J. Neurochem.* 47:54-62, 1986.

Note : For research use only. Not for use in diagnostic procedures.