

## Monoclonal Antibody to GAPDH (Clone: ABM22C5)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	ABM22C5
<b>Application :</b>	IHC, WB
<b>Reactivity :</b>	Mouse, Human
<b>Gene :</b>	GAPDH
<b>Gene ID :</b>	2597
<b>Uniprot ID :</b>	P04406
<b>Format :</b>	Purified
<b>Alternative Name :</b>	GAPDH  GAPD  CDABP0047  OK/SW-cl.12
<b>Isotype :</b>	Mouse IgG1 Kappa
<b>Immunogen Information :</b>	A partial length recombinant GAPDH protein (amino acids 120-320) was used as the immunogen for this antibody.

### Description

GAPDH (Glyceraldehyde-3-Phosphate Dehydrogenase) is an enzyme best known for its role in glycolysis. However, extra-glycolytic functions of GAPDH have been described, including regulation of protein expression via RNA binding. GAPDH binds to numerous AREs (adenine-uridine rich elements) from various mRNA 3'-untranslated regions in vitro and in vivo despite its lack of a canonical RNA binding motif. GAPDH specifically catalyzes the simultaneous phosphorylation and oxidation of glyceraldehyde 3-phosphate using NAD<sup>+</sup> (Nicotinamide Adenine Dinucleotide) as a cofactor to produce glycerate 1,3-biphosphate and NADH. In addition to its role in energy production, GAPDH has been implicated in many cellular processes including DNA repair tRNA export, membrane fusion and transport, endocytosis and nuclear membrane assembly, and cell death.

### Product Info

<b>Amount :</b>	100 µg
<b>purification :</b>	Protein G Chromatography
<b>Content :</b>	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

### Application Note

Western blot analysis: 0.5-2 µg/ml, Immunohistochemical analysis: 5 µg/ml



