

## 45-1058: Mouse Monoclonal Antibody to GAPDH (Clone : 3B1E9)(Discontinued)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	3B1E9
<b>Application :</b>	ELISA
<b>Reactivity :</b>	Pig,Human,Bovine,Goat
<b>Gene :</b>	GAPDH
<b>Gene ID :</b>	2597
<b>Uniprot ID :</b>	P04406
<b>Format :</b>	Purified
<b>Alternative Name :</b>	Glyceraldehyde-3-phosphate dehydrogenase, Peptidyl-cysteine S-nitrosylase GAPDH
<b>Isotype :</b>	Mouse IgG2a, $\kappa$
<b>Immunogen Information :</b>	Human GAPDH protein from erythrocytes

### Description

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is well known as one of the key enzymes involved in glycolysis. 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. During the last decade a lot of findings appeared concerning the role of GAPDH in different pathologies including prostate cancer progression, programmed neuronal cell death, age-related neuronal diseases, such as Alzheimers and Huntingtons disease. GAPDH Antibody, mAb, Mouse is produced from the hybridoma resulting from fusion of Sp2/0 myeloma and lymphocytes obtained from mouse immunized with human GAPDH protein from erythrocytes.

### Product Info

<b>Amount :</b>	100 $\mu$ g
<b>Purification :</b>	Protein A chromatography
<b>Content :</b>	0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.
<b>Storage condition :</b>	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

### Application Note

**ELISA:** 0.05-0.2  $\mu$ g/ml

**Western blot:** 1-2  $\mu$ g/ml

Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

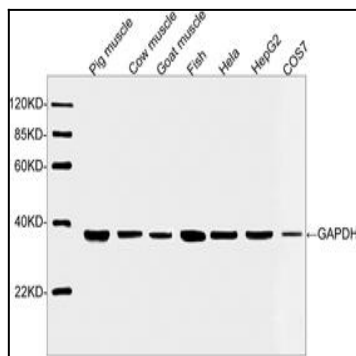


Figure-1 : Western blot analysis of GAPDH Antibody (Clone: 3B1E9 ) at 1 µg/ml on Pig muscle, Cow muscle, Goat muscle, Fish (tissue lysates) and HeLa, HepG2, COS7 cell lysates.

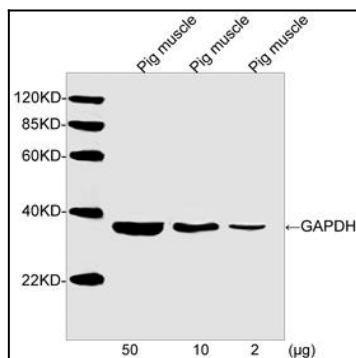


Figure-2 : Western blot analysis of GAPDH Antibody (Clone: 3B1E9 ) at 1 µg/ml on Pig muscle tissue lysates (50, 10 & 2 µg).