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

Clonality :	Monoclonal
Clone Name :	3B1E9
Application :	ELISA
Reactivity :	Pig,Human,Bovine,Goat
Gene :	GAPDH
Gene ID :	2597
Uniprot ID :	P04406
Format :	Purified
Alternative Name :	Glyceraldehyde-3-phosphate dehydrogenase, Peptidyl-cysteine S-nitrosylase GAPDH
Isotype :	Mouse IgG2a, Î¹
Immunogen Information :	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 proceses 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

Amount :	100 µg
Purification :	Protein A chromatography
Content :	0.5 mg/ml, lyophilized with PBS, pH 7.4, containing 0.02% sodium azide.
Storage condition :	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 µg/ml
Western blot: 1-2 µg/ml
Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/ml.

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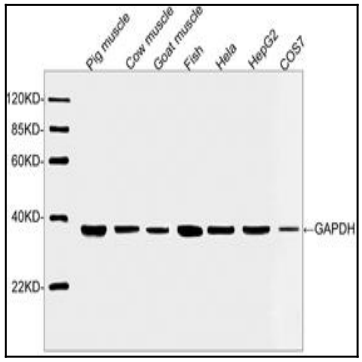


Figure-1 : Western blot analysis of GAPDH Antibody (Clone: 3B1E9) at 1 µg/ml on Pig muscle, Cow muscle, Goat muscle, Fish (tissue lysates) and HeLa, HepG2, COS7 cell lysates.

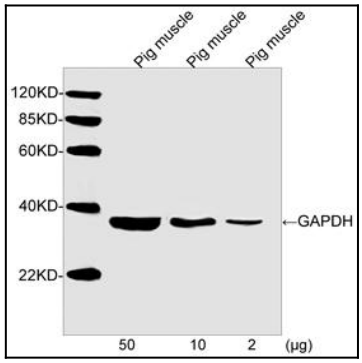


Figure-2 : Western blot analysis of GAPDH Antibody (Clone: 3B1E9) at 1 µg/ml on Pig muscle tissue lysates (50, 10 & 2 µg).

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