Datasheet for ABIN361377

anti-GAPDHS antibody

3 Images

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Overview

Quantity:	100 µL
Target:	GAPDHS
Reactivity:	Pig
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GAPDHS antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Purified porcine GAPDH
Clone:	1D4
Isotype:	IgM
Specificity:	Specific for the ~38k Glyceraldehyde 3-Phosphate Dehydrogenase (GAPDH) protein.
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Predicted Reactivity:	Avian, bovine
Purification:	Total IgM fraction--concentrated culture supernatant

Target Details

Target:	GAPDHS
Alternative Name:	GAPDHS (GAPDHS Products)

Target Details

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. Because GAPDH is a protein expressed in large amounts and which is required at all times for important house keeping functions, levels of GAPDH mRNA are often measured and used as standards in studies of mRNA expression. Increasingly, scientists are making use of specific antibodies to GAPDH in comparable studies of levels of protein expression. 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. Apart from a role in glycolysis, GAPDH may have other roles such as in the activation of transcription (1). GAPDH is reported to bind to a variety of other proteins, including the amyloid precursor protein, mutations in which cause some forms of Alzheimer's disease, and the polyglutamine tracts of Huntingtin, the protein product aberrant forms of which are causative of Huntington's disease (2,3). Associations with actin and tubulin have also been reported. 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 (4). Purification: Unpurified, concentrated culture supernatant.
Molecular Weight:	'38 kDa
Gene ID:	26330
UniProt:	O14556
Pathways:	Regulation of Carbohydrate Metabolic Process

Application Details

Application Notes:	Recommended Dilution: WB: 1:1,000 IF: 1:100 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only

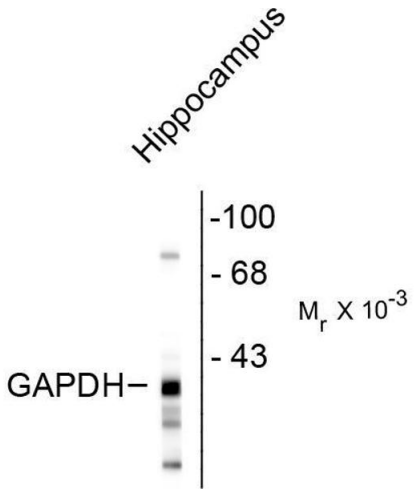
Handling

Format:	Liquid
Buffer:	total IgM fraction + 10 mM Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

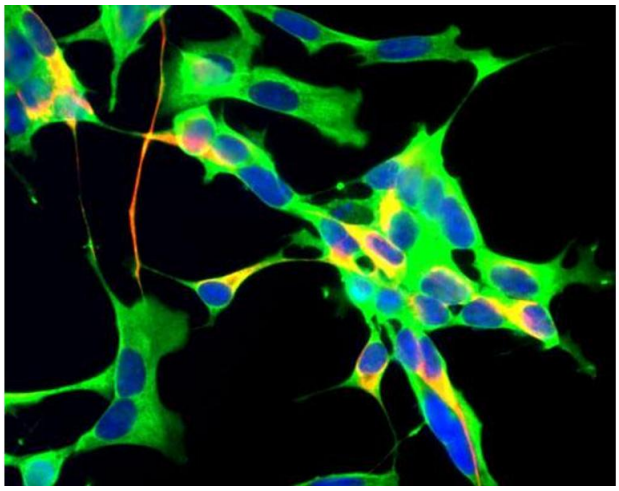
Storage:	-20 °C

Images



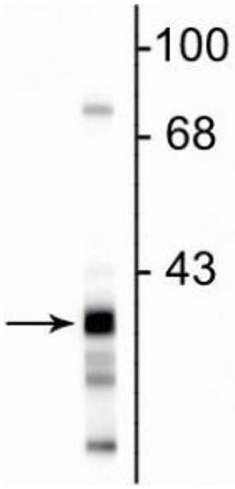
Western Blotting

Image 1. Western blot of rat hippocampal lysate showing the immunolabeling of ~38k GAPDH protein.



Immunocytochemistry

Image 2. Human neuroblastoma SH-SY5Y cells stained with mouse anti-GAPDH (green), chicken antibody to neurofilament NF-H (catalog # 1451-NFH) (red) and DNA (blue).



Western Blotting

Image 3. Western blot of rat hippocampal lysate showing the specific immunolabeling of ~38 kDa GAPDH protein.

