

Datasheet for ABIN7153644  
**anti-GAPDH antibody (AA 3-335)**



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5 Images

## Overview

Quantity:	100 µL
Target:	GAPDH
Binding Specificity:	AA 3-335
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GAPDH antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP), Flow Cytometry (FACS)

## Product Details

Immunogen:	Recombinant Human GAPDH protein (3-335AA)
Clone:	14C2F11
Isotype:	IgG1, IgG1 kappa
Cross-Reactivity:	Human, Rabbit, Rat
Purification:	Protein G purified

## Target Details

Target:	GAPDH
Alternative Name:	GAPDH ( <a href="#">GAPDH Products</a> )

## Target Details

Background:	<p>Background: Glyceraldehyde 3-phosphate dehydrogenase (GAPDH or G3PDH) is an enzyme of 37 kDa that is considered as a cellular enzyme involved in glycolysis. Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is a pleiotropic enzyme that is overexpressed in apoptosis and in several human chronic pathologies. Its role as a mediator for cell death has also been highlighted. At the molecular level, sequential steps lead to nuclear translocation of GAPDH during cell death as follows: first, a catalytic cysteine in GAPDH (C150 in rat GAPDH) is S-nitrosylated by nitric oxide (NO) that is generated from inducible nitric oxide synthase (iNOS) and/or neuronal NOS (nNOS), second, the modified GAPDH becomes capable of binding with Siah1, an E3 ubiquitin ligase, and stabilizes it, third, the GAPDH-Siah protein complex translocates to the nucleus, dependent on Siah1's nuclear localization signal, and degrades Siah1's substrates in the nucleus, which results in cytotoxicity. A recent report suggests that GAPDH may be genetically associated with late-onset of Alzheimer's disease.-deprenyl, which has originally been used as a monoamine oxidase inhibitor for Parkinson's disease, binds to GAPDH and displays neuroprotective actions.</p> <p>Aliases: GAPDH, G3PD, GAPD, MGC88685</p>
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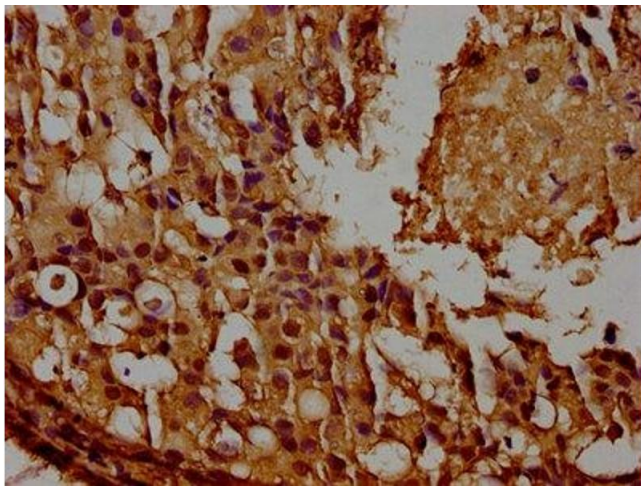
UniProt: [P04406](#)

## Application Details

Application Notes:	Recommended dilution: WB:1:5000-1:1600000, IHC:1:50-1:500, IF:1:50-1:200, IP:1 µL-2 µL, FC:1:100-1:300,
Restrictions:	For Research Use only

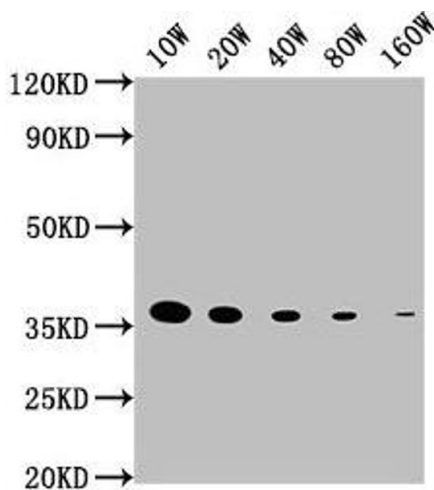
## Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



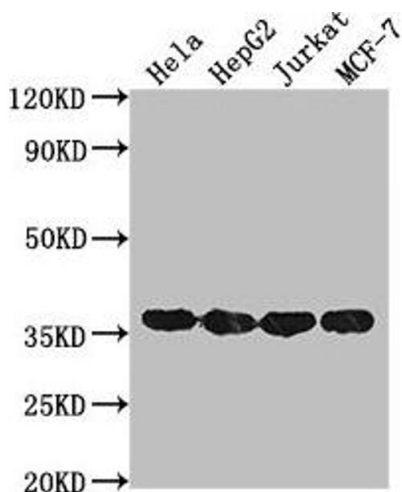
#### Immunohistochemistry

**Image 1.** IHC image of ABIN7153644 diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



#### Western Blotting

**Image 2.** Western Blot Positive WB detected in: 15 µg hela whole cell lysate GAPDH antibody at 1:100000, 1:200000, 1:400000, 1:800000, 1:1600000 Secondary Goat polyclonal to mouse IgG at 1/50000 dilution Predicted band size: 36 KDa Observed band size: 36 KDa Exposure time: 5 min



#### Western Blotting

**Image 3.** Western Blot Positive WB detected in: Hela whole cell lysate, HepG2 whole cell lysate, Jurkat whole cell lysate, MCF-7 whole cell lysate All lanes: GAPDH antibody at 1:2000 Secondary Goat polyclonal to mouse IgG at 1/50000 dilution Predicted band size: 36 KDa Observed band size: 36 KDa Exposure time: 30s

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7153644.