

Datasheet for ABIN185543
anti-GAPDH antibody (Internal Region)

11 Images

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Overview

Quantity:	100 µg
Target:	GAPDH
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Goat
Clonality:	Polyclonal
Conjugate:	This GAPDH antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	GAPDH (Internal)
Immunogen:	Peptide with sequence C-GVNHEKYDNSLK, from the internal region of the protein sequence according to NP_002037.2.
Sequence:	GVNHEKYDNS LK
Isotype:	IgG
Specificity:	This antibody is expected to recognize both reported isoforms (NP_002037.2, NP_001243728.1). Reported variants represent identical protein: NP_001276674.1, NP_002037.2, NP_001276675.1. GAPDH is constitutively expressed in almost all tissues at high levels
Cross-Reactivity:	Dog, Human, Mouse, Rat

Product Details

Purification: Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Grade: Verified

Target Details

Target: GAPDH

Alternative Name: GAPDH ([GAPDH Products](#))

Background: GAPDH, glyceraldehyde-3-phosphate dehydrogenase, HGNC:4141, G3PD, GAPD, MGC88685, OTTHUMP00000174431, OTTHUMP00000174432, aging-associated gene 9 protein, glyceraldehyde 3-phosphate dehydrogenase

Gene ID: 2597, 14433, 24383

NCBI Accession: [NP_002037](#), [NP_001243728](#)

Application Details

Application Notes: Immunohistochemistry: In paraffin embedded Human Liver shows textured cytoplasm staining in hepatocytes. Recommended concentration: 2 µg/mL.

Western Blot: Approx 37 kDa band observed in Human Liver, Testis and Tonsil, and in Mouse Liver and Rat Heart lysates, and in cell lysates of HeLa and NIH3T3 (calculated MW of 36.1 kDa according to Human NP_002037.2, Mouse NP_032110.1, and Rat NP_058704.1

Peptide ELISA: antibody detection limit dilution 1:16000.

Comment: **Immunofluorescence:** Strong expression of the protein seen in the cytoplasm of U251 and HeLa cells. Recommended concentration: 5-10µg/ml.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.5 mg/mL

Buffer: Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Handling Advice: Minimize freezing and thawing.

Storage: -20 °C

Storage Comment: Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable.

Publications

Product cited in: Ramsden, Nommiste, R Lane, Carr, Powner, J K Smart, Chen, Muthiah, Webster, Moore, Cheetham, da Cruz, Coffey: "Rescue of the MERTK phagocytic defect in a human iPSC disease model using translational read-through inducing drugs." in: **Scientific reports**, Vol. 7, Issue 1, pp. 51, (2019) ([PubMed](#)).

Carr, Vugler, Yu, Semo, Coffey, Moss, Greenwood: "The expression of retinal cell markers in human retinal pigment epithelial cells and their augmentation by the synthetic retinoid fenretinide." in: **Molecular vision**, Vol. 17, pp. 1701-15, (2011) ([PubMed](#)).

Carr, Vugler, Lawrence, Chen, Ahmado, Chen, Semo, Gias, da Cruz, Moore, Walsh, Coffey: "Molecular characterization and functional analysis of phagocytosis by human embryonic stem cell-derived RPE cells using a novel human retinal assay." in: **Molecular vision**, Vol. 15, pp. 283-95, (2009) ([PubMed](#)).

Chakir, Daya, Aiba, Tunin, Dimaano, Abraham, Jaques-Robinson, Jacques, Lai, Pacak, Zhu, Xiao, Tomaselli, Kass: "Mechanisms of enhanced beta-adrenergic reserve from cardiac resynchronization therapy." in: **Circulation**, Vol. 119, Issue 9, pp. 1231-40, (2009) ([PubMed](#)).

Schillace, Miller, Pisenti, Grotzke, Swarbrick, Lewinsohn, Carr: "A-kinase anchoring in dendritic cells is required for antigen presentation." in: **PLoS ONE**, Vol. 4, Issue 3, pp. e4807, (2009) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)

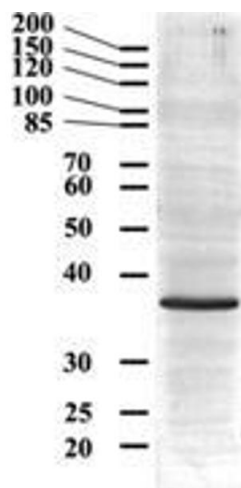


Image 1. ABIN185543 (0.5 µg/mL) staining of Rat Liver lysate (35 µg protein in RIPA buffer). Primary incubation was overnight. Detected by alkaline phosphatase (NBT/BCIP). Data provided by Dr. I. Sabolic, Institute for Medical Research and Occupational Health, Zagreb, Croatia.



Image 2. ABIN185543 (0.1 µg/mL) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

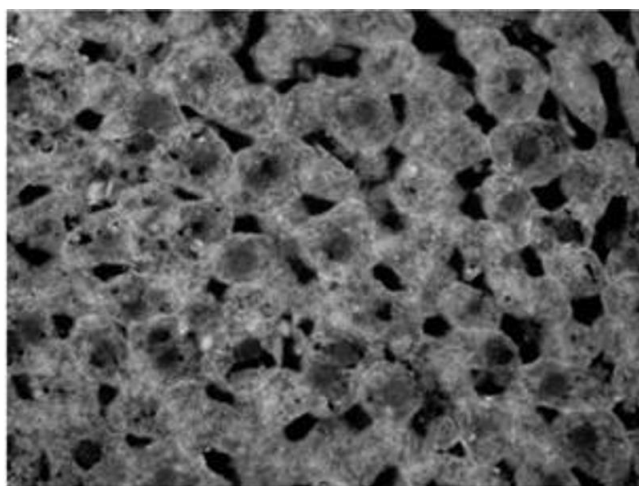


Image 3. ABIN185543 (20 µg/mL) staining of PFA-perfused cryosection of Rat Liver. Antigen retrieval with citrate buffer pH 3 by microwave for 20min, Cy3 detection. Data obtained by Dr. I. Sabolic, Institute for Medical Research and Occupational Health, Zagreb, Croatia.

Please check the [product details page](#) for more images. Overall 11 images are available for ABIN185543.