



Datasheet for ABIN678458
anti-GAPDH antibody (AA 1-335)



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7 Images

16 Publications

Overview

Quantity:	100 µL
Target:	GAPDH
Binding Specificity:	AA 1-335
Reactivity:	Human, Mouse, Rat, Rabbit, Pig, Chicken, Cow, Various Species
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GAPDH antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	GAPDH protein of rabbit
Isotype:	IgG
Cross-Reactivity:	Chicken, Cow, Human, Mouse, Pig, Rabbit, Rat, Various Species
Purification:	Purified by Protein A.

Target Details

Target:	GAPDH
Alternative Name:	Gapdh (GAPDH Products)

Target Details

Background: Synonyms: G3PD, GAPD, HEL-S-162eP, Glyceraldehyde-3-phosphate dehydrogenase, GAPDH, Peptidyl-cysteine S-nitrosylase GAPDH, CDABP47, OK/SW-cl.12

Background: Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC. Modulates the organization and assembly of the cytoskeleton. Facilitates the CHP1-dependent microtubule and membrane associations through its ability to stimulate the binding of CHP1 to microtubules (By similarity).

Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate. Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes. Upon interferon-gamma treatment assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation.

Gene ID: 2597

UniProt: [P04406](#)

Application Details

Application Notes: WB 1:300-5000
FCM 1:20-100
IHC-P 1:200-400
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

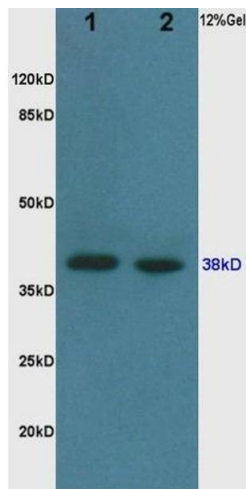
Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

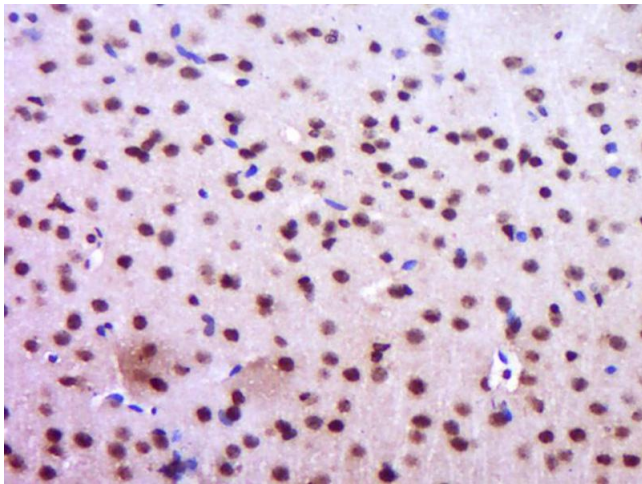
- Product cited in:
- Zhang, Wang, Xie, Chen, Sinkemani, Yu, Wang, Mao, Wu: "Dysregulation of YAP by the Hippo pathway is involved in intervertebral disc degeneration, cell contact inhibition, and cell senescence." in: **Oncotarget**, Vol. 9, Issue 2, pp. 2175-2192, (2018) ([PubMed](#)).
- Sun, Zhang, Tang, Yang, Chu, Zhao: "SL2B aptamer and folic acid dual-targeting DNA nanostructures for synergic biological effect with chemotherapy to combat colorectal cancer." in: **International journal of nanomedicine**, Vol. 12, pp. 2657-2672, (2017) ([PubMed](#)).
- Tan, Shi, Ba, Lin, Tang, Zeng, Zhang: "miR-409-3p sensitizes colon cancer cells to oxaliplatin by inhibiting Beclin-1-mediated autophagy." in: **International journal of molecular medicine**, Vol. 37, Issue 4, pp. 1030-8, (2016) ([PubMed](#)).
- Jia, Song, Yang, Ma, Li, Lu, Cao, Zhang, Zhu, Wang, Leng, Cao, Du, Xu: "Effects of Tanshinone IIA on the modulation of miR-33a and the SREBP-2/Pcsk9 signaling pathway in hyperlipidemic rats." in: **Molecular medicine reports**, Vol. 13, Issue 6, pp. 4627-35, (2016) ([PubMed](#)).
- Wang, Jia, Chen, Wang, Li: "Osthole shows the potential to overcome P-glycoprotein-mediated multidrug resistance in human myelogenous leukemia K562/ADM cells by inhibiting the PI3K/Akt signaling pathway." in: **Oncology reports**, Vol. 35, Issue 6, pp. 3659-68, (2016) ([PubMed](#)).

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



Western Blotting

Image 1.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Paraformaldehyde-fixed, paraffin embedded Mouse brain Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes Blocking buffer (normal goat serum) at 37°C for 30min Antibody incubation with GAPDH Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, DAB staining.

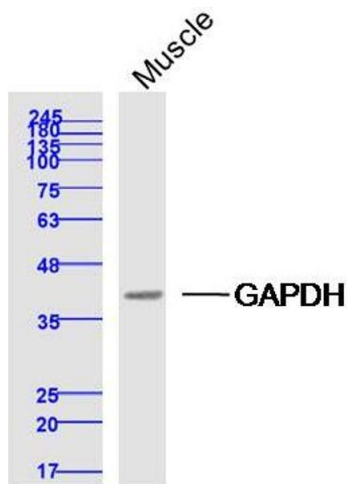


Image 3. Mouse muscle lysates probed with GAPDH Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN678458.