Order: 0571-88177686
Fax: 0571-88177681
Support: support@biolynx.cn

Rev.: 2018/12/5

GAPDH
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX00084
Clone# RR688

Predicted Molecular Wt: 36kDa
Purity: ProA affinity purified IgG
Species Cross-reactivity: Hu, Mu, Rat, Bovine, Pig, Chicken, African clawed frog, Zebrafish, Green monkey
Form: Liquid
Species cross-reactivity determined by WB
Swissprot ID: P04406
Applications: WB IHC-P IF/ICC FC IP

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.

Immunogen:

A synthetic peptide corresponding to residues aa200-300 of human GAPDH was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C.

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

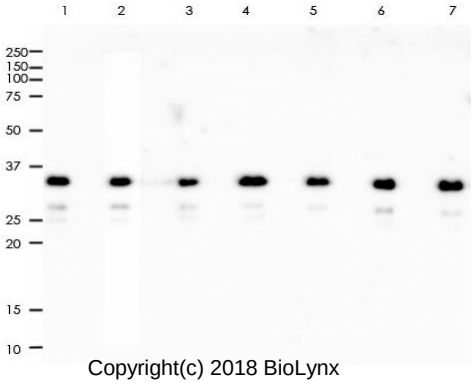
Recommended Dilutions:

WB:	1:5,000 - 1:40,000
IHC-P:	1:1,600 - 1:3,200
IF/ICC:	1:2,000 - 1:10,000
FC:	1:200 - 1:1,000
IP:	1:50

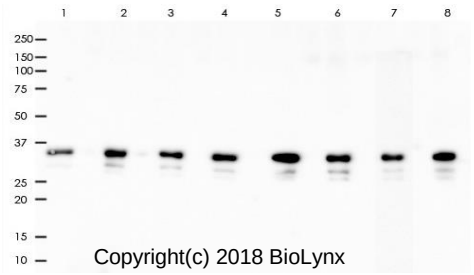
Background References:

1. Weng M et al. Oncotarget 8:20288-20296 (2017).

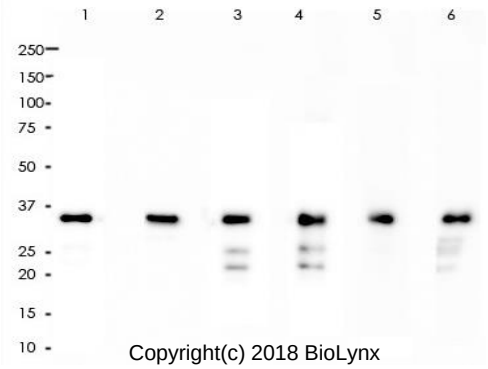
2. Corda G et al. J Pathol 241:350-361 (2017).



All lanes: Anti-GAPDH antibody at 1:40,000 dilution
Predicted MW: 36 kDa
Observed MW: 36 kDa
Lane 1: A431
Lane 2: MCF-7
Lane 3: HCT-116
Lane 4: 293
Lane 5: Hela
Lane 6: Raji
Lane 7: Jurkat
Lysate at 2 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000
Exposure: 60s



All lanes: Anti-GAPDH antibody at 1:40,000 dilution
Predicted MW: 36 kDa
Observed MW: 36 kDa
Lane 1: Mu Brain
Lane 2: Mu Heart
Lane 3: Mu Kidney
Lane 4: Mu Liver
Lane 5: Rat Brain
Lane 6: Rat Heart
Lane 7: Rat Kidney
Lane 8: Rat Liver
Lysate at 2 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000
Exposure: 100s



All lanes: Anti-GAPDH antibody at 1:40,000 dilution
Predicted MW: 36 kDa
Observed MW: 36 kDa
Lane 1: MDBK
Lane 2: Cos-7
Lane 3: Chicken Heart
Lane 4: Pig Heart
Lane 5: African clawed frog
Lane 6: Zebrafish
Lysate at 2 µg per lane
2nd Ab:
GAR HRP(H+L) 1:5,000
Exposure: 50s

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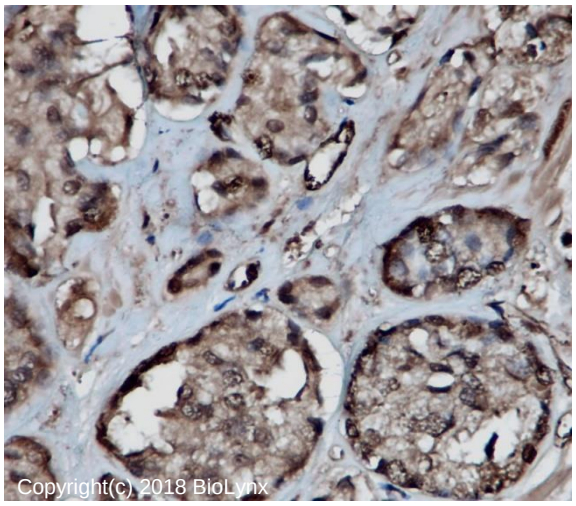
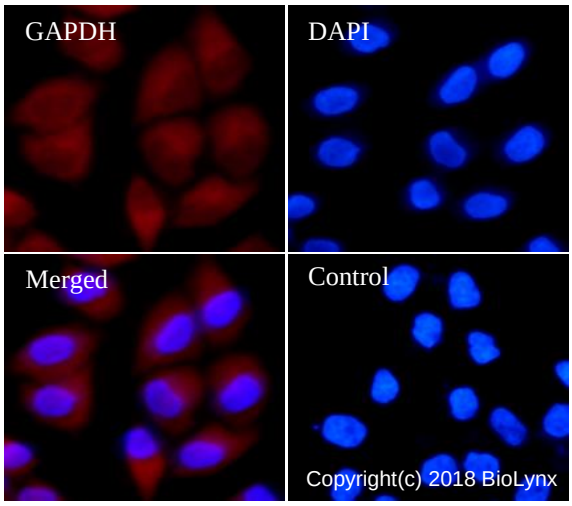
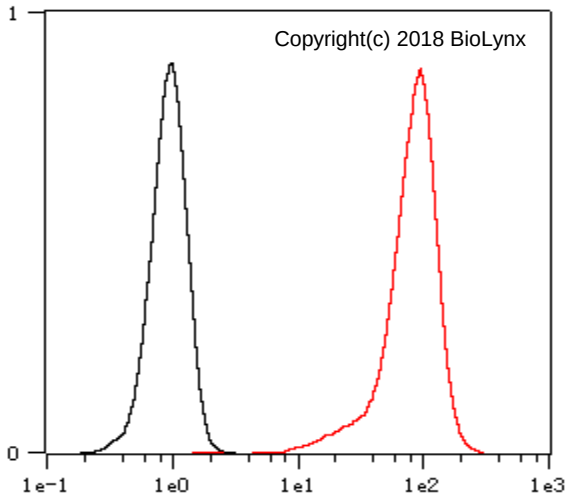


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of prostate cancer tissue labelling GAPDH with RR688 at 1:1,600. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

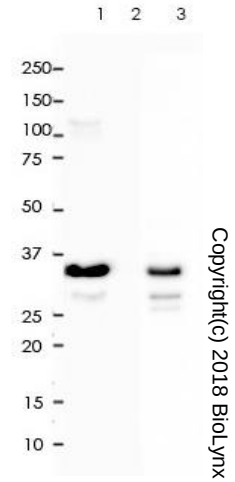


RR688 staining GAPDH in Hela cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:50,000) at 4°C. An Alexa Fluor® 594-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing Hela cells stained with RR688 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR688, 1:1,000 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.



GAPDH was immunoprecipitated from 0.1mg of Hela whole cell lysate with RR688 at 1:50 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR688 IP in Hela whole cell lysate
Lane 2: PBS instead of RR688 in Hela whole cell lysate
Lane 3: Hela whole cell lysate, 2 µg (input)

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.