

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

Rev.: 2018/12/5

Purity: ProA affinity purified IgG

Actin

Recombinant Rabbit Monoclonal Antibody Catalog# BX00063 **Product Datasheet** Clone# RR667

Predicted Molecular Wt: 42kDa

Species Cross-reactivity: Human, Mouse, Rat, Dog, Bovine, Pig, Chicken,

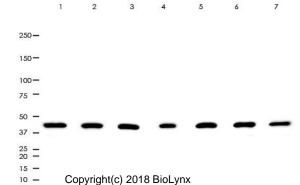
Form: Liquid Green monkey, African clawed frog, Zebrafish Swissprot ID: P68133

Species cross-reactivity determined by WB

Applications: IHC-P IF/ICC

Background:

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells. This antibody is predicted to react with all actin isoforms, including: 1) sarcomeric actins, α -skeletal (α -SKA) and α -cardiac (α -CAA), 2) smooth muscle actins (SMAs), α-SMA and γ-SMA, and 3) cytoplasmic actins (CYAs), β-CYA and γ-CYA.



All lanes: Anti-actin antibody at 1:1,000 dilution

Predicted MW: 42 kDa Observed MW: 42 kDa

Lane 1: Jurkat Lane 2: Hela Lane 3: 293T

Lane 4: Raw264.7 Lysates at 10 µg per lane

2nd Ab: Lane 5: A431

Lane 6: A375 GAR HRP(H+L) 1:5,000 Lane 7: 3T3 Exposure: 20s

Storage conditions: -20°C

Immunogen:

Storage Buffer:

Storage instructions:

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

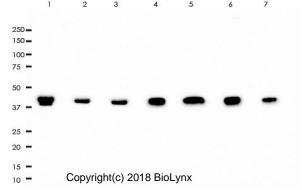
A synthetic peptide corresponding to the N-term of

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

actin was used as an immunogen.

Recommended Dilutions:

1:1,000 - 1:2,000 WB: IHC-P: 1:800 - 1:1,600 IF/ICC: 1:10 - 1:50 IP: 1:40



All lanes: Anti-actin antibody at 1:1,000 dilution

Predicted MW: 42 kDa Observed MW: 42 kDa

Background References:

1. Chen X et al. Sci Rep 7:40958 (2017).

2. Vermillion MS et al. Nat Commun 8:14575 (2017).

Lane 1: MDBK Lane 2: MDCK Lane 3: COS-7

Lysates at 10 µg per lane Lane 4: Pig heart

2nd Ab: Lane 5: Chicken heart

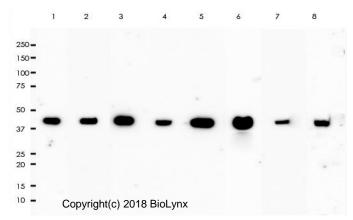
GAR HRP(H+L) 1:5,000 Lane 6: African clawed frog

Exposure: 20s Lane 7: Zebrafish



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All lanes: Anti-actin antibody at 1:1,000 dilution

Predicted MW: 42 kDa Observed MW: 42 kDa

Lane 1: Mouse brain Lane 2: Mouse heart Lane 3: Mouse kidney

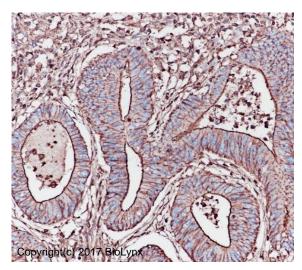
Lane 4: Mouse liver

Lysates at 10 µg per lane Lane 5: Rat brain 2nd Ab:

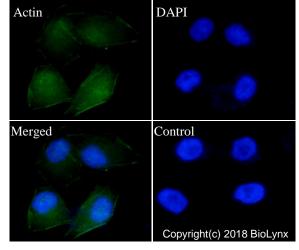
Lane 6: Rat liver

GAR HRP(H+L) 1:5,000 Lane 7: Rat kidney Exposure: 20s

Lane 8: Rat liver

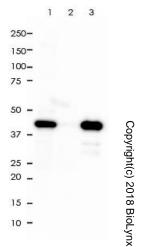


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colonic adenocarcinoma tissue labelling actin with RR667 at 1:1,600. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



RR667 staining Actin 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) at 4°C. An Alexa Fluor® 488-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® 488conjugated Goat Anti-Rabbit IgG (1:500).



Actin was immunoprecipitated from 0.4mg of PC-12 whole cell lysate with RR667 at 1:40 dilution.

2nd Ab:

GAR HRP for IP 1:500

Lane 1: RR667 IP in PC-12 whole cell lysate

Lane 2: PBS instead of RR667 in PC-12 whole cell lysate

Lane 3: PC-12 whole cell lysate, 10 µg (input)

Exposure: 30s

Product QC'd by:



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