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

Rev.: 2018/12/5

Vimentin
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

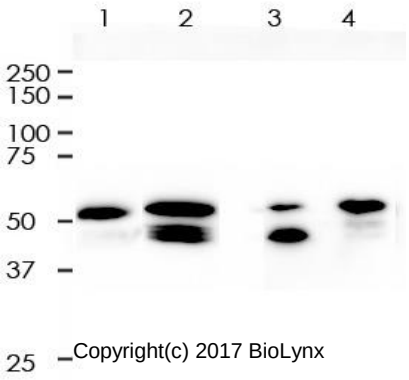
Catalog# BX00008
Clone# RR606

Predicted Molecular Wt: 54kDa
Species Cross-reactivity: Human Mouse Rat
Species cross-reactivity determined by WB
Applications: WB IHC-P FC IF/ICC IP

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P08670

Background:

Vimentins are class-III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. Vimentin is attached to the nucleus, endoplasmic reticulum, and mitochondria, either laterally or terminally.
Involved with LARP6 in the stabilization of type I collagen mRNAs for CO1A1 and CO1A2.



All lanes: Anti-Vimentin antibody at 1:5,000 dilution
Predicted MW: 54 kDa
Observed MW: 54 kDa

Lane 1: Hela
Lane 2: HEK293
Lane 3: A549
Lane 4: 3T3

Lysate at 10 µg per lane
2nd Ab:
G&R HRP(H+L) 1:10,000

Exposure: 100s

Immunogen:

A synthetic peptide corresponding to residues on the C-terminus of human Vimentin was used as an immunogen.

Storage Buffer:

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

Storage conditions:

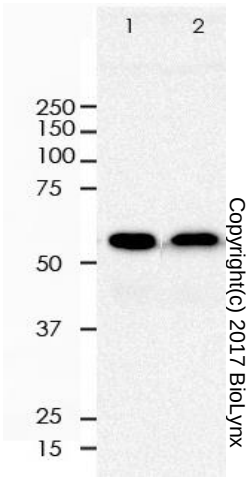
-20°C.

Storage instructions:

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

Recommended Dilutions:

WB:	1:5,000 - 10,000
IHC-P:	1:100 - 1:200
FC:	1:10 - 1:200
IF/ICC:	1:2,000 - 1:10,000
IP:	1:20



All lanes: Anti-Vimentin antibody at 1:5,000 dilution

Predicted MW: 54 kDa
Observed MW: 54 kDa

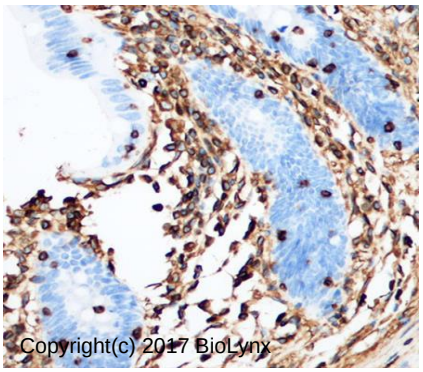
Lane 1: Mu Heart
Lane 2: Rat Heart

Lysate at 10 µg per lane
2nd Ab:
G&R HRP(H+L) 1:10,000

Exposure: 20s

Background References:

1. Jia X et al., Oncol Lett 12:1717-1720 (2016).
2. Su B et al., Oncotarget 7:10498-512 (2016).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human colon tissue labelling vimentin with RR606 at 1:100. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

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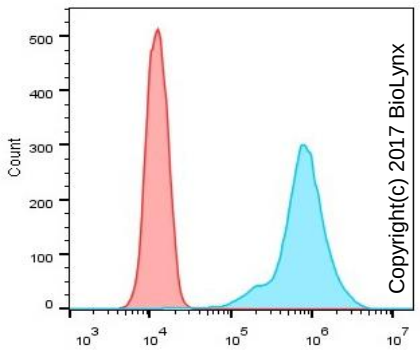
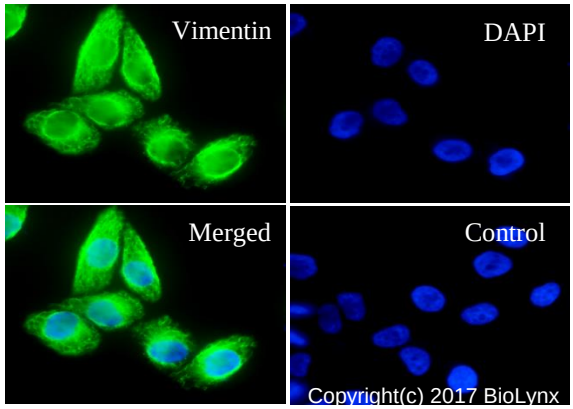
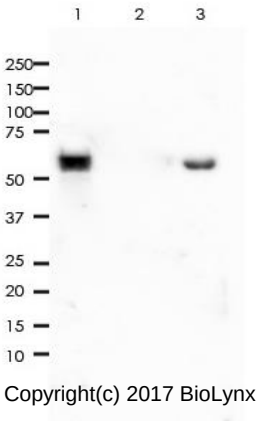


Overlay histogram showing Hela cells stained with RR606 (Blue). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR606, 1:10 dilution) in 1x PBS/1% BSA for 30 min at 4°C. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at 4°C. Unlabelled sample (Red) was used as a control.



RR606 staining Vimentin 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 (1:2,000) 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® 488-conjugated Goat Anti-Rabbit IgG (1:500).



Vimentin was immunoprecipitated from 0.4mg of Hela lysate with RR606 at 1:20 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR606 IP in Hela whole cell lysate
Lane 2: Rabbit IgG instead of RR606 in Hela whole cell lysate
Lane3: Hela whole cell lysate, 10 µg (input)

Exposure: 60s

Product QC'd by:

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