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Rev.: 2018/12/5

Vimentin
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX00015
Clone# RR620

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

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 1:2,000 dilution
Predicted band size : 54 kDa
Observed band size : 54 kDa

Lane 1 : Hela
Lane 2 : SW480
Lane 3 : HEK293
Lane 4 : A549
Lane 5 : NIH/3T3

Lysates at 10 µg per lane.
2nd Ab:
GAR HRP(H+L) 1:5,000
Exposure: 120s

Immunogen:

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

Storage Buffer:

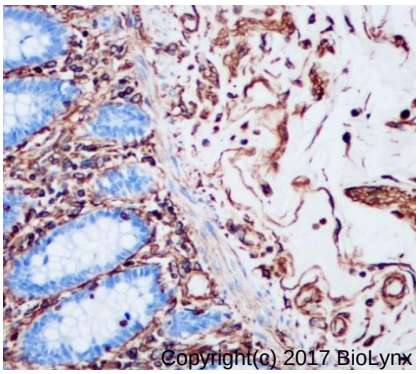
PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C.

Storage instructions:

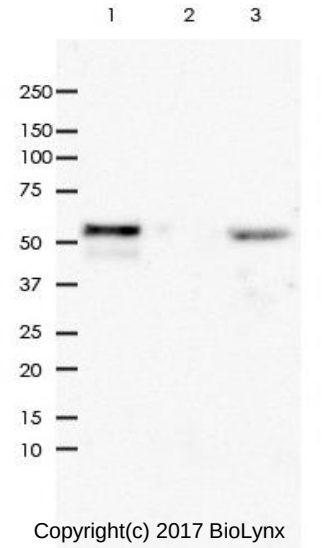
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human Conlon tissue labelling Vimentin with RR620 at 1:1,000. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH9.0.

Recommended Dilutions:

WB:	1:1,000 - 1:2,000
IHC-P:	1:500 - 1:1,000
IP:	1:50
FC:	1:100 - 1:500
IF/ICC:	1:10,000 - 1:25,000



Anti-Vimentin was immunoprecipitated from 0.4mg of Hela lysate with RR620 at 1:50 dilution.
2nd Ab:
GAR HRP for IP 1:10,000

Lane 1: RR620 IP in Hela whole cell lysate
Lane 2: Rabbit IgG instead of RR620 in Hela whole cell lysate
Lane3: Hela whole cell lysate, 10 µg(input)

Exposure: 60s

Background References:

1. Jia X et al., Oncol Lett 12:1717-1720 (2016).

2. Su B et al., Oncotarget 7:10498-512 (2016).

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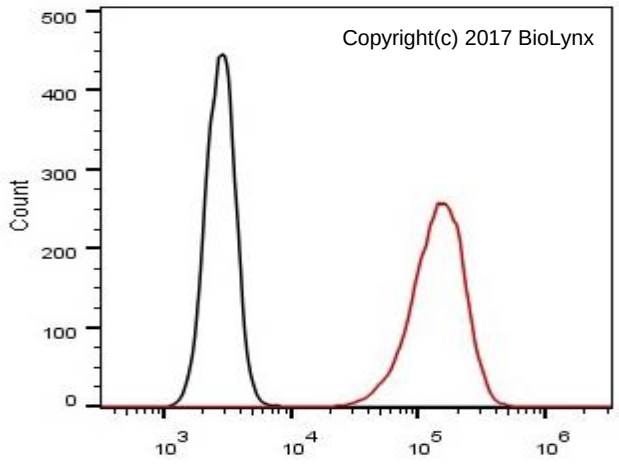
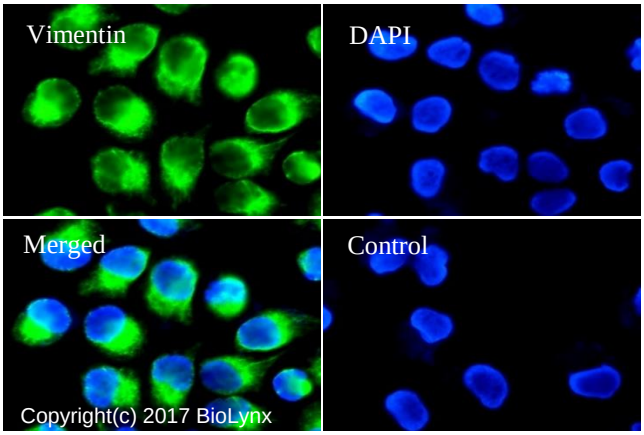


Overlay histogram showing Hela cells stained with RR620 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR620 , 1:500 dilution) in 1x PBS/1% BSA for 30 min at 4°C. The secondary antibody 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 (Black) was used as a control.



RR620 staining Vimentin in Hela cells by IF/ICC (Immunocytochemistry/immunofluorescence). 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 (1:25,000) 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).

Product QC'd by:

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