

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

Rev.: 2018/12/5

### Histone 3.1

# Recombinant Rabbit Monoclonal Antibody Product Datasheet

IHC-P

Catalog# BX00088

Clone# RR692

Predicted Molecular Wt: 15kDa

Hu, Mu, Rat, Bovine, Dog, Green Monkey, Zebrafish

IΡ

Form: Liquid

Species cross-reactivity determined by WB

Swissprot ID: P68431

Applications:

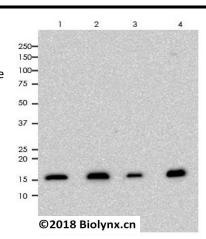
**Species Cross-reactivity:** 

W/R

FC

#### **Background:**

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.



All lanes: Anti-Histone 3.1 antibody at 1:10,000 dilution

Predicted MW: 15 kDa Observed MW: 15 kDa

Purity: ProA affinity purified IgG

Lane 1: Hela Lane 2: HT-29 Lane 3: MCF-7 Lane 4: Molt-4

Lysates at 10 µg per lane

2nd Ab:

Exposure: 60s

GAR HRP(H+L) 1:5,000

#### Immunogen:

A synthetic peptide corresponding to residues aa1-100 of human Histone 3.1 was used as an immunogen.

## Storage Buffer:

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

#### Storage conditions:

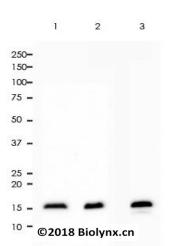
-20°C.

#### Storage instructions:

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

#### **Recommended Dilutions:**

WB: 1:2,000 - 1:5,000 IHC-P: 1:800 - 1:1,600 FC: 1:50 - 1:200 IP: 1:100



# All lanes: Anti-Histone 3.1 antibody at 1:5,000 dilution

Predicted MW: 15 kDa Observed MW: 15 kDa

Lane 1: A431 Lane 2: 293 Lane 3: HepG2

Lysates at 10 µg per lane

2nd Ab:

GAR HRP(H+L) 1:5,000

Exposure: 120s

All lanes: Anti-Histone 3.1 antibody at 1:2,000 dilution

Predicted MW: 15 kDa Observed MW: 15 kDa

Lane 1: PC-12 Lane 2: Raw264.7

Lysates at 10  $\mu g$  per lane 2nd Ab:

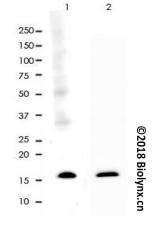
GAR HRP(H+L) 1:5,000

Exposure: 20s

#### **Background References:**

1. Wu JL et al. PLoS One 10:e0126623 (2015).

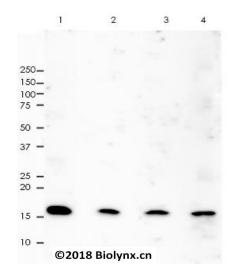
2. Westman J et al. PLoS Pathog 11:e1005319 (2015).





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All lanes: Anti-Histone 3.1 antibody at 1:2,000 dilution

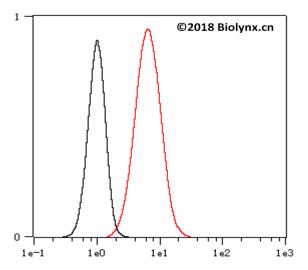
Predicted MW: 15 kDa Observed MW: 15 kDa

Lane 1: MDBK Lysates at 10 µg per lane

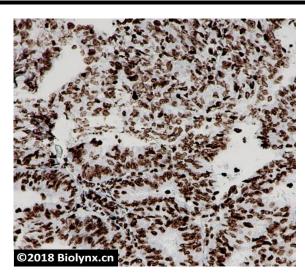
Lane 2: MDCK 2nd Ab:

Lane 3: Cos-7 GAR HRP(H+L) 1:5,000

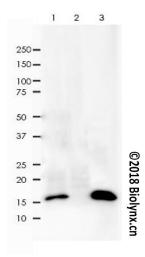
Lane 4: Zebrafish Exposure: 60s



Overlay histogram showing Hela cells stained with RR692 (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 (RR692, 1:200 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human endometrial cancer tissue labelling Histone 3.1 with RR692 at 1:800. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



Histone 3.1 was immunoprecipitated from 0.4mg of Hela whole cell lysate with RR692 at 100 dilution.

2nd Ab:

GAR HRP for IP 1:500

Lane 1: RR692 IP in Hela whole cell lysate

Lane 2: PBS instead of RR692 in Hela whole cell lysate

Lane 3: Hela whole cell lysate, 10 μg (input)

Product QC'd by:

Nothing

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