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

Rev.: 2018/12/5

V5 tag
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX00096
Clone# RR700

Predicted Molecular Wt: Depending on customers' target of interest
Species Cross-reactivity: Species independent
Species cross-reactivity determined by WB
Applications: WB IF/ICC FC IP

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: N/A

Background:

The V5 epitope tag is derived from a small epitope (Pk) present on the P and V proteins of the paramyxovirus of simian virus 5 (SV5). The V5 tag is usually used with all 14 amino acids (GKPIPNPLLGLDST), and useful for western blotting, immunofluorescence and immunoprecipitation experiments, although they also find use in antibody purification.

Immunogen:

GKPIPNPLLGLDST (V5 epitope) conjugated to KLH.

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.

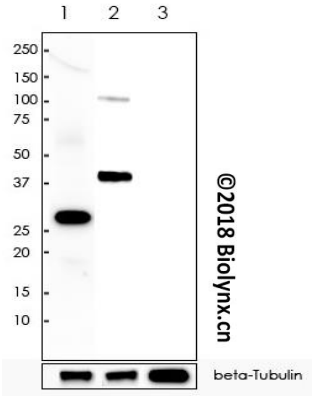
Recommended Dilutions:

WB:	1:1,000 - 1:2,000
IF/ICC:	1:2,000 - 1:10,000
FC:	1:2,000 - 1:10,000
IP:	1:50

Background References:

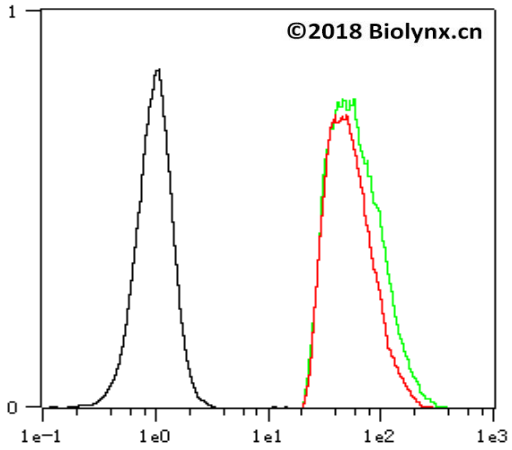
1. Kim D et al. Nucleic Acids Res 45:5112-5125 (2017).

2. Varney SD et al. J Cell Sci 129:774-87 (2016).



Predicted MW: Depend on fusion protein with V5 tag
Lane 1: 293 cell lysates transfected with N-terminal V5 tagged gene (RR700 at 1:10,000 dilution).
Lane 2: 293 cell lysates transfected with C-terminal V5 tagged gene (RR700 at 1:2,000 dilution).
Lane 3: Mock 293 cell lysates (RR700 at 1:2,000 dilution)
All lanes : 2 µg per lane

2nd Ab:
GAR HRP(H+L) 1:5,000
Exposure: 60s



Overlay histogram showing 293 cells transfected with N-terminal (Red) and C-terminal (Green) V5 tagged gene stained with RR700. The cells were then incubated in the antibody (RR700 , 1:10,000 dilution) in 1x PBS/1% BSA for 30 min at 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.

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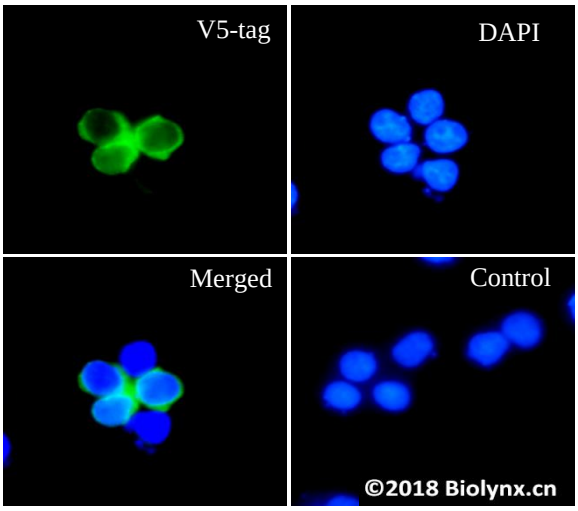
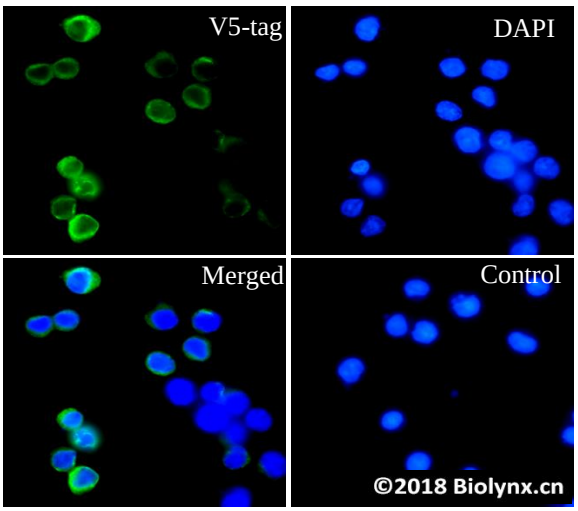


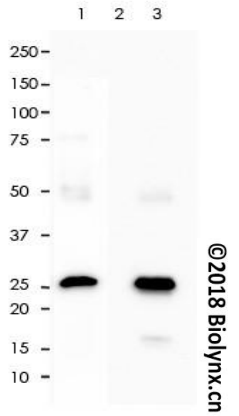
RR700 staining V5 tag in 293 cells transfected with N-terminal V5 tagged gene by IF/ICC (immunofluorescence/immunocytochemistry) Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:10,000) 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).

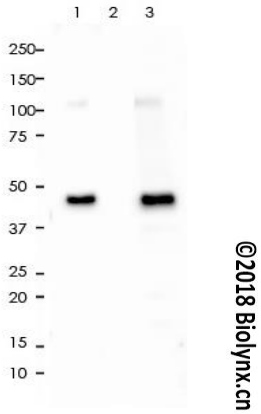


RR700 staining V5 tag in 293 cells transfected with C-terminal V5 tagged gene by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:10,000) 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).



V5 tag was immunoprecipitated from 0.1mg of 293 whole cell lysates transfected with N-terminal V5 tagged gene with RR700 at 1:50 dilution.
2nd Ab:
GAR HRP for IP 1:500
Lane 1: RR700 IP in 293 whole cell lysates transfected with N-terminal V5 tagged gene
Lane 2: PBS instead of RR700 in 293 whole cell lysates transfected with N-terminal V5 tagged gene
Lane 3: 293 whole cell lysate transfected with N-terminal V5 tagged gene, 4 µg (input)
Exposure: 60s



V5 tag was immunoprecipitated from 0.1mg of 293 whole cell lysates transfected with C-terminal V5 tagged gene with RR700 at 1:50 dilution.
2nd Ab:
GAR HRP for IP 1:500
Lane 1: RR700 IP in 293 whole cell lysates transfected with C-terminal V5 tagged gene
Lane 2: PBS instead of RR700 in 293 whole cell lysates transfected with C-terminal V5 tagged gene
Lane 3: 293 whole cell lysate transfected with C-terminal V5 tagged gene, 4 µg (input)
Exposure: 60s

Product QC'd by:

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