Anti-HA Rabbit Monoclonal Antibody

Product Datasheet

Catalog# PAR02-100 Clone#RR73

Predicted Molecular Wt: Depending on sample to be analyzedkDa **Purity:** ProA affinity purified IgG

Species Cross-reactivity: Species independent **Form:** Liquid

Species cross-reactivity determined by WB **Swissprot ID:** N/A

Applications: WB IF/ICC FC IP

Background:

Human influenza hemagglutinin (HA) is a surface glycoprotein required for the infectivity of the human virus. The HA tag derived from the HA molecule corresponding to amino acids 98-106 has been extensively used as a general epitope tag in expression vectors. Many recombinant proteins have been engineered to express the HA tag, which does not appear to interfere with the bioactivity or the biodistribution of the recombinant protein. This antibody can detect either N-term or C-term HA tag.

Immunogen:
YPYDVPDYA (influenza hemagglutinin-HA-epitope) conjugated to KLH.

Storage Buffer:
PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%

Storage conditions:-20° C.

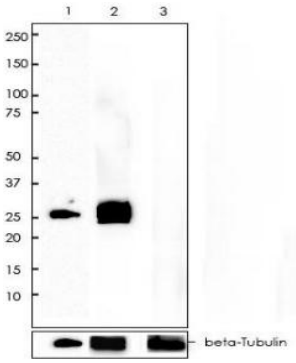
Storage instructions:
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:
WB:1:10,000 - 1:20,000
IF/ICC:1:2,000 - 1:10,000
FC:1:800 - 1:2,000
IP:1:50

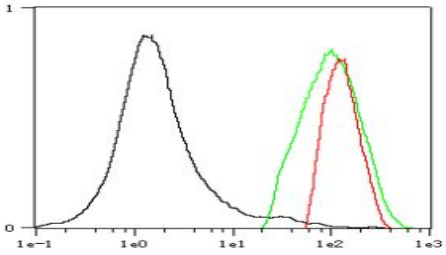
Background References:

1. He Y et al. Nucleic Acids Res 45: 106-114 (2017).

2.Jung J et al. Elife 6:N/A (2017).



Predicted MW: Depend on fusion protein with HA tag Lane 1: 293 cells lysate transfected with C-terminal HA tagged gene (RR673 at 1:2000dilution)
Lane 2: 293 cells lysate transfected with N-terminal HA tagged gene (RR673 at 1:1,000 dilution).
Lane 3: 293 cells lysate without anytransfection (RR673 at 1:400 dilution).
Lane 1: 1 µg per lane
Lane 2/3: 10 µg per lane
2nd Ab: GAR HRP(H+L) 1:5,000
Exposure: 20s



Overlay histogram showing 293 cells transfected with N -terminal (Green) and C-terminal (Red) HA tagged gene stained with RR673. The cells were then incubated in the antibody (RR673, 1:2,000 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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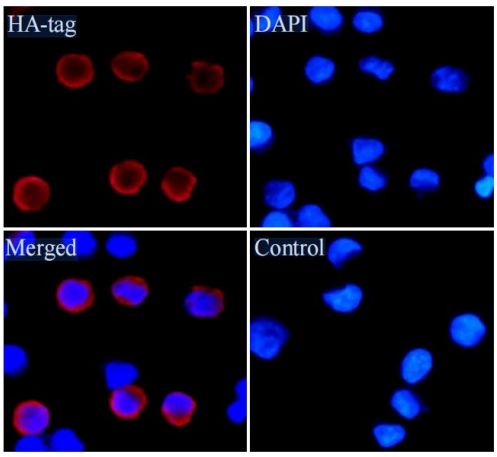
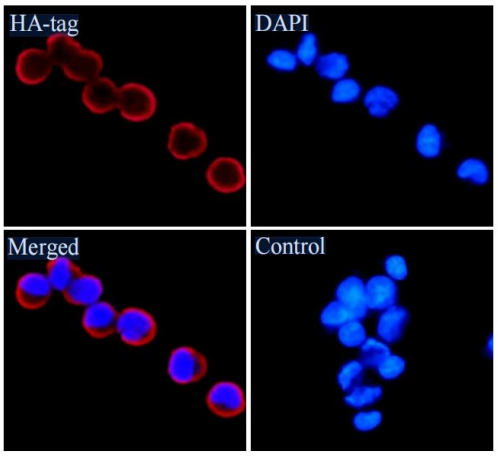
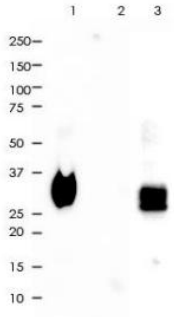


RR673 staining HA tag in 293 cells transfected with N - terminal HA tagged gene by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:2,000) at 4°C. An Alexa Fluor® 594-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® 594- conjugated Goat Anti-Rabbit IgG (1:500).



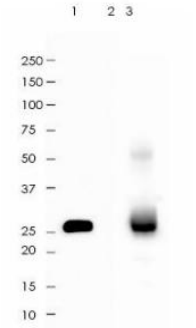
RR673 staining HA tag in 293 cells transfected with C-terminal HA tagged gene by IF/ICC (immunofluorescence/immunocytochemistry).Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:2,000) at4°C. An Alexa Fluor® 594-conjugated Goat AntiRabbit 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® 594- conjugated Goat Anti-Rabbit IgG (1:500)



HA tag was immunoprecipitated from 0.2mg of 293 whole cells lysate transfected with N-terminal HA tagged gene with RR673 at 1:10 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR673 IP in 293 whole cell lysate transfected with N-terminal HA tagged gene
Lane 2: PBS instead of RR673 in 293 whole cell lysate transfected with N-terminal HA tagged gene
Lane 3: 293 whole cell lysate transfected with N-terminal HA tagged gene, 10 µg (input)

Exposure: 60



HA tag was immunoprecipitated from 0.2mg of 293 whole cells lysate transfected with C-terminal HA tagged gene with RR673 at 1:10 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR673 IP in 293 whole cell lysate transfected with Cterminal HA tagged gene
Lane 2: PBS instead of RR673 in 293 whole cell lysate transfected with C-terminal HA tagged gene
Lane 3: 293 whole cell lysate transfected with C-terminal HA tagged gene, 10 µg (input)

Exposure: 60s

Product QC’dby:

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

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