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

Rev.: 2018/12/5

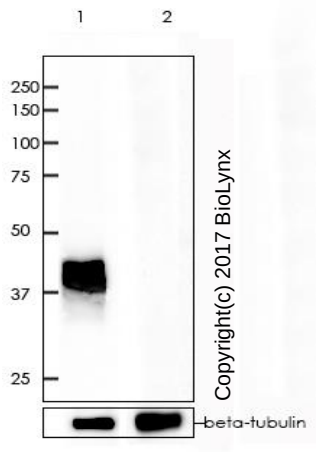
PD-1
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX00035
Clone# RR639

Predicted Molecular Wt: 31kDa
Species Cross-reactivity: Human
Species cross-reactivity determined by WB
Applications: WB IHC-P IF/ICC FC IP

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: Q15116

Background:
Inhibitory cell surface receptor involved in the regulation of T-cell function during immunity and tolerance. Upon ligand binding, inhibits T-cell effector functions in an antigen-specific manner. Possible cell death inducer, in association with other factors.



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

Predicted MW: 31 kDa
Observed MW: 40-50 kDa

Lane 1: 293 Overexpression of HuPD-1
Lane 2: 293 w/o HuPD-1

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

Immunogen:
Recombinant full length protein corresponding to Human PD-1. The immunogen contains the specific extracellular domain of huPD-1 (L25-Q167).

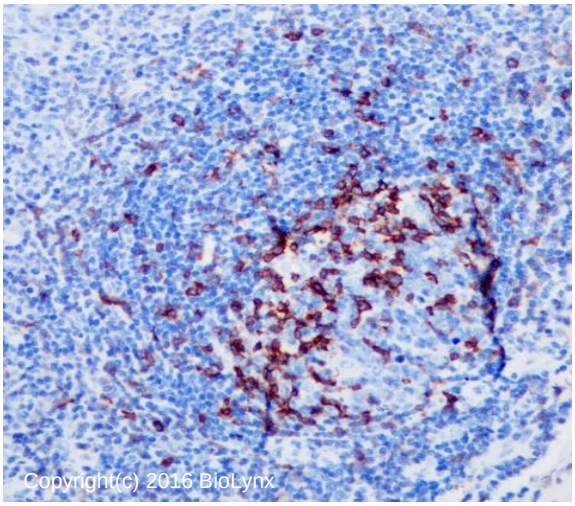
Storage Buffer:
PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

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 - 1:10,000
IHC-P:	1:100 - 1:200
IF/ICC:	1:2,000 - 1:10,000
FC:	1:50 - 1:200
IP:	1:50



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung tonsil tissue labelling PD-1 with RR639 at 1:200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

Background References:

1. Immunol. Lett. 83:215-220(2002).

2. Genes Immun. 6:430-437(2005).

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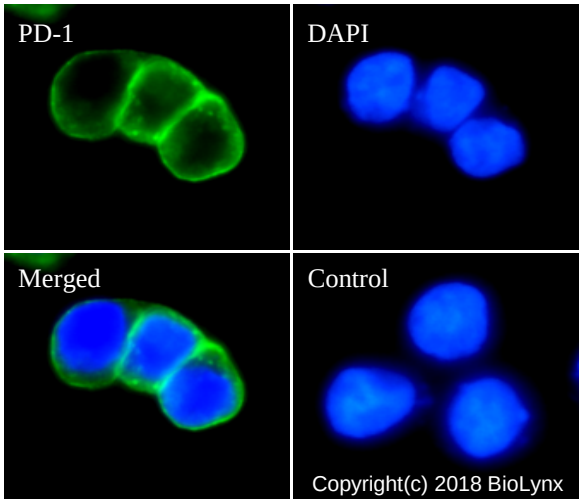
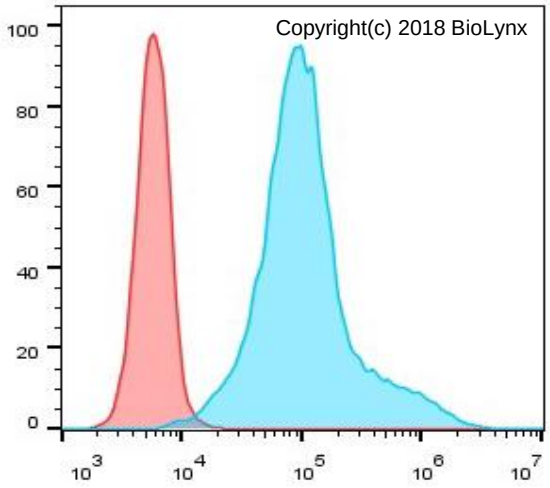
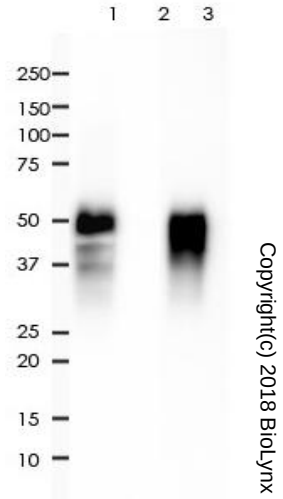


RR639 staining PD-1 in 293 cells transfected with PD-1 gene by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (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).



Overlay histogram showing 293 cells transfected with PD-1 gene stained with RR639 (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 (RR639, 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 (Red) was used as a control.



PD-1 was immunoprecipitated from 0.2mg of 293 whole cell lysate transfected with PD-1 gene with RR639 at 1:50 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR639 IP in 293 whole cell lysate transfected with PD-1 gene
Lane 2: PBS instead of RR639 in 293 whole cell lysate transfected with PD-1 gene
Lane 3: 293 whole cell lysate transfected with PD-1 gene, 2 µg (input)

Exposure: 10s

Product QC'd by:

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