

PD-1 recombinant antibody

Anti-PD-1 [RMP1-14]

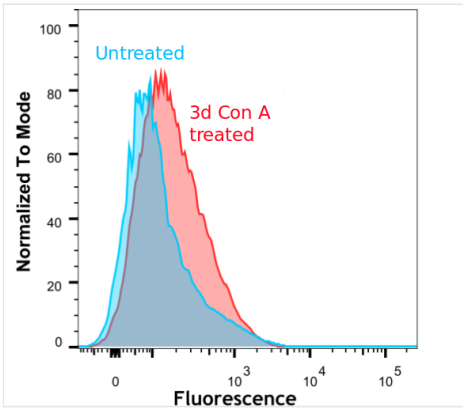
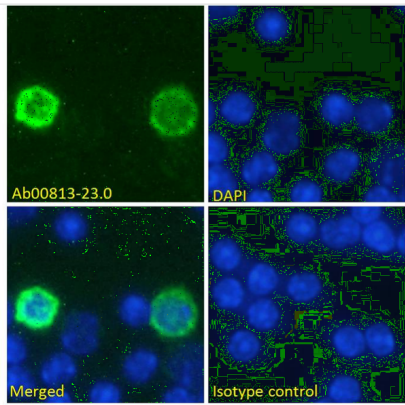
CATALOG # AAA72008	REACTIVITY Mouse	APPLICATIONS Immunohistochemistry, Flow Cytometry, Functional Assay
------------------------------	----------------------------	---

PRODUCT SYNONYMS

PD-1; Monoclonal Recombinant Antibody; Anti-PD-1 [RMP1-14]; CD279; PD1; PDCD1; RMP1-14; RMP1/14; Programmed Death Receptor 1; Programmed Death 1; PD-1 recombinant antibody

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG, Kappa
Clone Number	RMP1-14
Specificity	This antibody binds to murine PD-1.
Purity/Purification	Protein A Affinity Purified
Concentration	1 mg/ml (varies by lot)
Applicable Applications for PD-1 recombinant antibody	IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), Blocking
Immunogen	The original rat hybridoma was generated by immunizing Sprague Dawley rats with mouse PD-1-transfected BHK cells. A P3U1 myeloma was used as the fusion partner.
Note on Publication	Describes the generation and initial characterisation of the RPMP1-14 hybridoma.
Buffer Composition	PBS only with 0.02% Proclin 300.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



IF (Immunofluorescence)
Immunofluorescence staining of fixed mouse splenocytes with anti-PD-1 (programmed cell death protein 1) antibody RMP1-14 Immunofluorescence analysis of paraformaldehyde fixed mouse (*Mus musculus*) splenocytes on Shi-fix coverslips, permeabilized with 0.15% Triton stained with the chimeric rabbit version of RMP1-14 at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing membrane staining of a subset of cells. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.

FCM/FACS (Flow Cytometry)
Flow-cytometry using anti-PD-1 antibody RMP1-14 Staining of murine splenocytes (unstimulated and 3-day Con A stimulated) with the rabbit-chimeric version of RMP1-14 at a concentration of 1 ug/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody. Con A stimulation induces PD-1 expression as evident by the increased fluorescence signal.

ADDITIONAL INFORMATION

Related Product Information for PD-1 recombinant antibody	Recombinant monoclonal antibody to PD-1. Manufactured using a proprietary Recombinant Platform with variable regions (i.e. specificity) from the hybridoma RMP1-14. The original rat hybridoma was generated by immunizing Sprague Dawley rats with mouse PD-1-transfected BHK cells. A P3U1 myeloma was used as the fusion partner.
Product Categories/Family for PD-1 recombinant antibody	Costimulation; Invivo; Immunooncology; Vivopure
References	Yamazaki et al. Blockade of B7-H1 on macrophages suppresses CD4+ T cell proliferation by augmenting IFN-gamma-induced nitric oxide production. J Immunol. 2005 Aug 1; 175(3):1586-92 PMID:16034097

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.