

Product datasheet

Anti-PD1 antibody [NAT105] - BSA and Azide free ab201811

Recombinant

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Overview

Product name	Anti-PD1 antibody [NAT105] - BSA and Azide free
Description	Mouse monoclonal [NAT105] to PD1 - BSA and Azide free
Host species	Mouse
Tested applications	Suitable for: ICC/IF, WB, Flow Cyt, Flow Cyt (Intra), IHC-P
Species reactivity	Reacts with: Human
Immunogen	Tissue, cells or virus corresponding to Human PD1. TY cells (human T/NK cell Leukemia). Database link: Q15116
Positive control	IHC-P: Human tonsil tissue. Flow cyto (intra): Human PBMCs
General notes	<p>ab201811 is the carrier-free version of ab52587.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS

Carrier free	Yes
Purity	Protein G purified
Clonality	Monoclonal
Clone number	NAT105
Isotype	IgG1
Light chain type	kappa

Applications

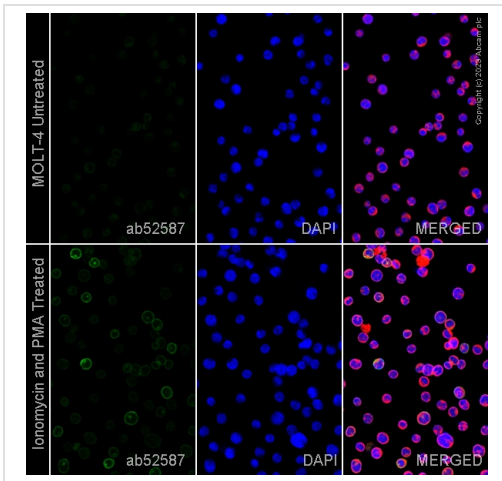
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab201811 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 32 kDa. See Western blot protocol .
Flow Cyt		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Perform heat-mediated antigen retrieval using Sodium citrate buffer (pH 6.0), 20 mins.

Target

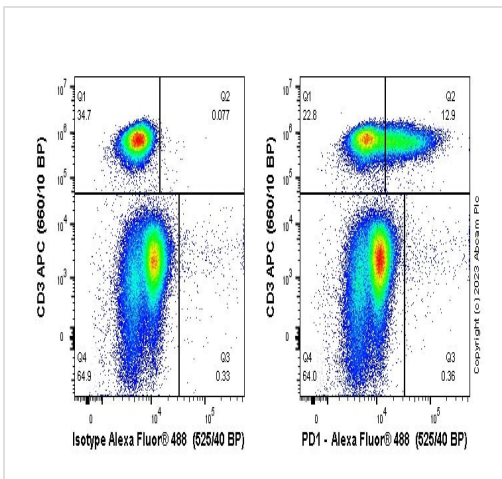
Function	Possible cell death inducer, in association with other factors.
Involvement in disease	Genetic variation in PDCD1 is associated with susceptibility to systemic lupus erythematosus type 2 (SLEB2) [MIM:605218]. Systemic lupus erythematosus is a chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally the skin, joints, kidneys and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.
Sequence similarities	Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Developmental stage	Induced at programmed cell death.
Cellular localization	Membrane.

Images



Immunocytochemistry/ Immunofluorescence - Anti-PD1 antibody [NAT105] - BSA and Azide free (ab201811)

This data was developed using the same antibody clone in a different buffer formulation containing BSA and sodium azide (**ab52587**). **ab52587** staining PD1 in MOLT4 treated with Ionomycin (500 ng/ml, 24 h) and PMA (10 ng/ml, 24 h) cells. The cells were fixed with 100% methanol (5 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with **ab52587** at 5µg/ml and **ab6046**, Rabbit polyclonal to beta Tubulin - Loading Control. Cells were then incubated with **ab150117**, Goat polyclonal Secondary Antibody to Mouse IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and **ab150080**, Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (Alexa Fluor® 594) at 1/1000 dilution (shown in pseudocolour magenta). Nuclear DNA was labelled with DAPI (shown in blue). Also suitable in cells fixed with 4% paraformaldehyde (10 min). Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.

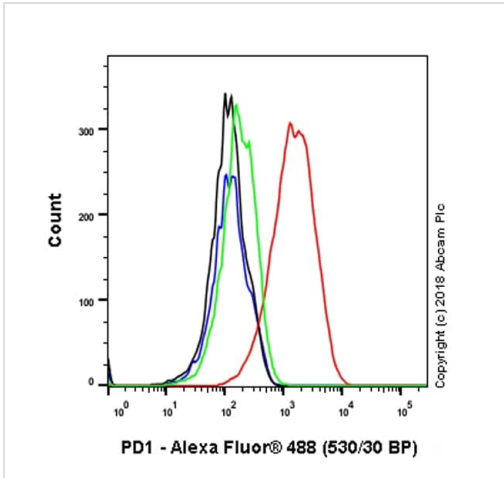


Flow Cytometry - Anti-PD1 antibody [NAT105] - BSA and Azide free (ab201811)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab234444**).

Flow cytometry staining of human peripheral blood mononuclear cells (PBMCs) with **ab234444** (right) or Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control (left). PBMCs were incubated for 30 min on ice in 1x PBS containing 10 µg/ml human IgG and 10 % normal goat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody **ab234444** or Mouse IgG1, kappa monoclonal [15-6E10A7] - Isotype Control (1x 10⁶ in 100 µl at 5.0 µg/ml (1/516)) for 30min on ice. The cells were simultaneously stained with CD3.

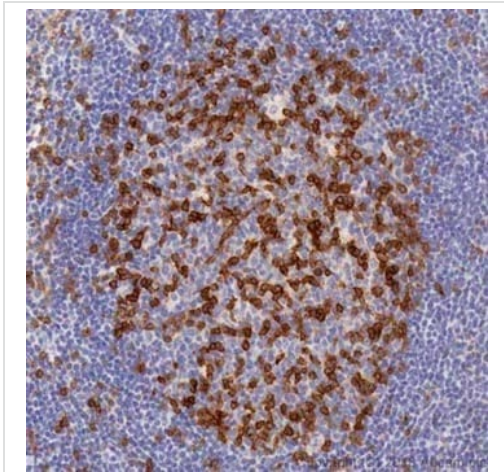
The secondary antibody Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed was incubated at 1/4000 for 30min on ice. Acquisition of >30000 events were collected using a 50 mW Blue laser (488nm) and 525/40 bandpass filter. Events were gated on viable cells.



Flow Cytometry (Intracellular) - Anti-PD1 antibody [NAT105] - BSA and Azide free (ab201811)

Intracellular flow cytometric analysis of MOLT-4 (human lymphoblastic leukemia cell line) cell line treated with ionomycin (500 ng/ml, 24h) and PMA (10 ng/ml, 24h) labeling PD1 with **ab234444** at 1/1000 dilution (red) and an untreated control (green) compared with a mouse monoclonal IgG1 (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) (**ab150113**) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab234444**).







Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD1 antibody [NAT105] - BSA and Azide free (ab201811)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling PD1 with **ab234444** at 1/50 dilution, followed by Rabbit Anti-Mouse IgG + Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on T cells of human tonsil germinal center is observed. Performed on a Leica Biosystems BOND instrument. Counter stained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab234444**).

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?

 Research with confidence Consistent and reproducible results	 Long-term and scalable supply Recombinant technology
 Success from the first experiment Confirmed specificity	 Ethical standards compliant Animal-free production

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(ab201811)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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