

Product datasheet

Anti-PD1 antibody [EPR20665] - BSA and Azide free
ab228857

Recombinant RabMAb

4 Images

Overview

Product name	Anti-PD1 antibody [EPR20665] - BSA and Azide free
Description	Rabbit monoclonal [EPR20665] to PD1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse
Immunogen	<p>This product was produced with the following immunogens:</p> <p>Synthetic peptide corresponding to Mouse PD1 aa 100-200 (Cysteine residue). Database link: Q02242</p> <p>Synthetic peptide corresponding to Mouse PD1 aa 50-150 (Cysteine residue). Database link: Q02242</p>
Positive control	WB: EL4.IL-2 (mouse lymphoma T lymphocyte), whole cell lysate. IHC-P: Mouse spleen and thymus tissues.
General notes	<p>The formulation and the concentration of this product is compatible for metal-conjugation for mass cytometry (CyTOF®).</p> <p>ab228857 is a PBS-only buffer formulated version of ab214421, containing no BSA or sodium azide, ideal for antibody labeling. Please refer to ab214421 for information on protocols, dilutions, and image data.</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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20665
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab228857** in the following tested applications.

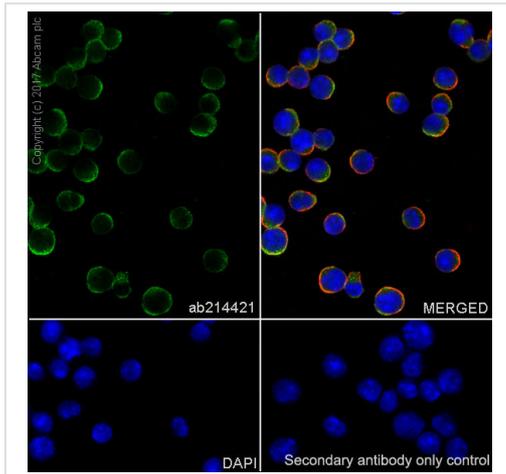
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 50-55 kDa (predicted molecular weight: 31 kDa).
ICC/IF		Use at an assay dependent concentration.

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



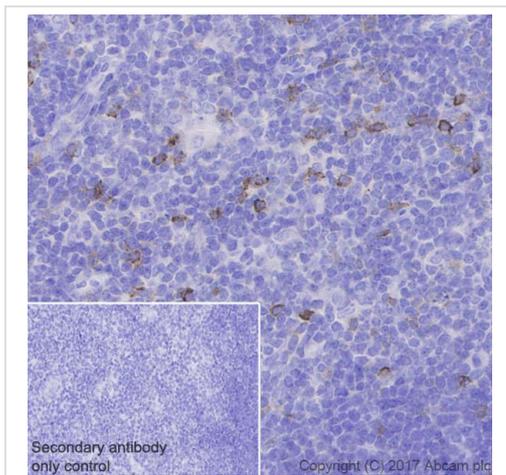
Immunocytochemistry/ Immunofluorescence - Anti-PD1 antibody [EPR20665] - BSA and Azide free (ab228857)

Immunofluorescent analysis of 100% methanol-fixed EL4.IL-2 (mouse lymphoma T lymphocyte) cells labeling PD1 with [ab214421](#) at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on EL4.IL-2 cell line.

The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab214421](#)).

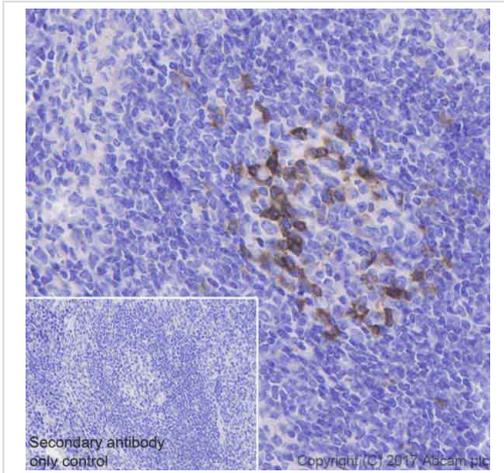


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD1 antibody [EPR20665] - BSA and Azide free (ab228857)

Immunohistochemical analysis of paraffin-embedded mouse thymus tissue labeling PD1 with [ab214421](#) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Sporadic cytoplasmic staining on mouse thymus medulla. (PMID: 21750671, PMID: 17640856). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab214421](#)).

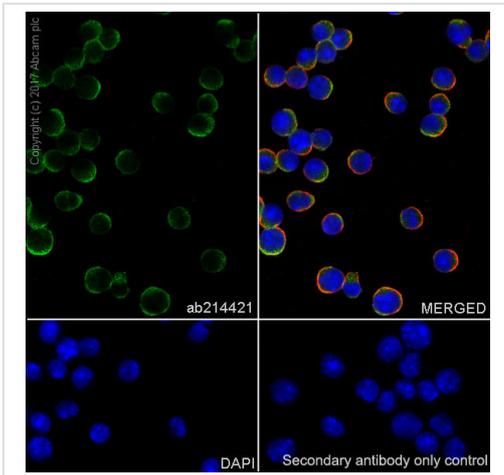


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PD1 antibody [EPR20665] - BSA and Azide free (ab228857)

This IHC data was generated using the same anti-PD1 antibody clone, EPR20665, in a different buffer formulation (cat# [ab214421](#)).

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling PD1 with [ab214421](#) at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining on the germinal center of mouse spleen. (PMID: 21750671, PMID: 17640856). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.



Immunocytochemistry/ Immunofluorescence - Anti-PD1 antibody [EPR20665] - BSA and Azide free (ab228857)

This ICC/IF data was generated using the same anti-PD1 antibody clone, EPR20665, in a different buffer formulation (cat# [ab214421](#)).

Immunofluorescent analysis of 100% methanol-fixed EL4.IL-2 (mouse lymphoma T lymphocyte) cells labeling PD1 with [ab214421](#) at 1/100 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on EL4.IL-2 cell line.

The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

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