

## Product datasheet

### Anti-PD1 (phospho Y248) antibody [EPR19821] ab206378

Recombinant RabMAb

4 Images

#### Overview

<b>Product name</b>	Anti-PD1 (phospho Y248) antibody [EPR19821]
<b>Description</b>	Rabbit monoclonal [EPR19821] to PD1 (phospho Y248)
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, Dot blot, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: HEK-293T transfected with a PD1 (WT) plus a 25 kDa fusion protein expression vector, then treated with 100 µM pervanadate for 10 minutes whole cell lysate. IP: HEK-293T transfected with PD1 (WT) plus 25 kDa fusion protein expression vector, then treated with 100 µM pervanadate for 10 minutes whole cell lysate.
<b>General notes</b>	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19821

Isotype

IgG

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab206378 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
WB		1/1000. Predicted molecular weight: 32 kDa.
Dot blot		1/1000.
IP		1/30.

## 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.

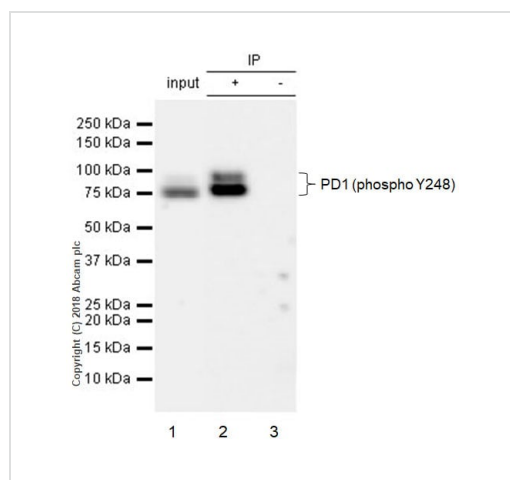
### Developmental stage

Induced at programmed cell death.

### Cellular localization

Membrane.

## Images



Immunoprecipitation - Anti-PD1 (phospho Y248) antibody [EPR19821] (ab206378)

PD1 (phospho Y248) was immunoprecipitated from 0.35 mg of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with a PD1 (WT) plus 25 kDa fusion protein expression vector, then treated with 100  $\mu$ M pervanadate for 10 minutes whole cell lysate, with ab206378 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab206378 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used for detection at 1/5000 dilution.

Lane 1: HEK-293T transfected with a PD1 (WT) plus 25 kDa fusion protein expression vector, then treated with 100  $\mu$ M pervanadate for 10 minutes whole cell lysate 10  $\mu$ g (Input).

Lane 2: ab206378 IP in HEK-293T transfected with a PD1 (WT) plus 25 kDa fusion protein expression vector, then treated with 100

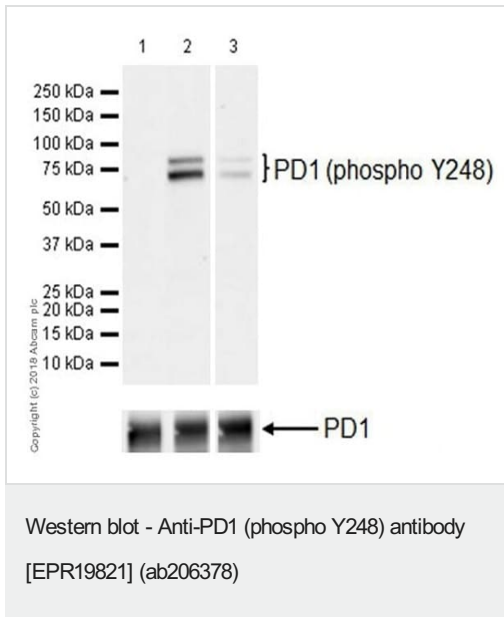
µM pervanadate for 10 minutes whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab206378 in HEK-293T transfected with a PD1 (WT) plus 25 kDa fusion protein expression vector, then treated with 100 µM pervanadate for 10 minutes whole cell lysate.

Exposure time: 30 seconds

Blocking and diluting buffer and concentration: 5% NFDN/TBST

The observed bands around 75 kDa comprise PD-1 plus the 25 kDa fusion protein. The plasmids were kindly provided by our collaborator Dr. Liang Chen, NIBS.



**All lanes** : Anti-PD1 (phospho Y248) antibody [EPR19821] (ab206378) at 1/1000 dilution

**Lane 1** : Untreated-HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate transfected with a PD1 (WT) plus a 25 kDa fusion protein expression vector

**Lane 2** : HEK-293T transfected with a PD1 (WT) plus a 25 kDa fusion protein expression vector, then treated with 100 µM pervanadate for 10 minutes whole cell lysate

**Lane 3** : HEK-293T transfected with PD1 (WT) plus a 25 kDa fusion protein expression vector, then treated with 100 µM pervanadate for 10 minutes, whole cell lysate (20 µg). Following the transfer to PVDF, the membrane was treated with alkaline phosphatase for 1h at 37°C.

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 32 kDa

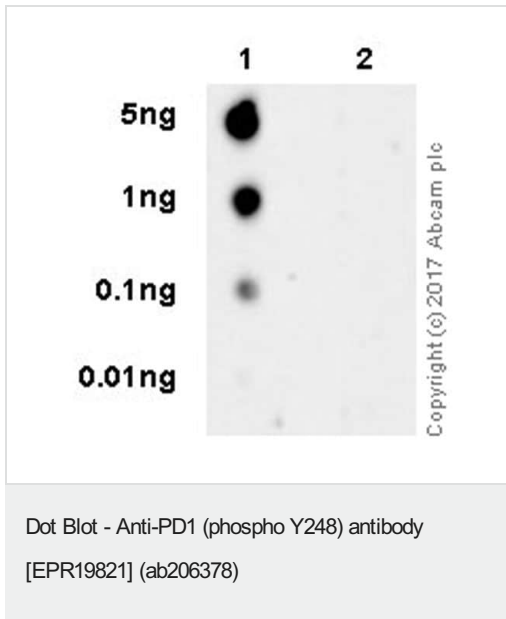
**Observed band size:** 70-75 kDa

**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% NFDN/TBST.

The observed bands at around 75 kDa are PD-1 plus the 25 kDa

fusion protein. The expression profile observed is consistent with what has been described in the literature (PMID: 22641383). The plasmids were kindly provided by our collaborator Dr. Liang Chen NIBS.



Dot blot analysis of PD1 (phospho Y248) labeled with ab206378 at 1/1000 dilution.

Lane 1: PD1 (phospho Y248) peptide.

Lane 2: PD1 non-phospho peptide.

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution was used as secondary antibody.

Blocking/Dilution buffer: 5% NFD/MTBST.

Exposure time: 1 minute.

The blot was developed on a BIO-RAD<sup>®</sup> ChemiDoc<sup>™</sup> MP instrument.

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

Anti-PD1 (phospho Y248) antibody [EPR19821] (ab206378)

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

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