

Product datasheet

Anti-Protein Kinase D2 antibody [3A1] ab118987

4 Images

Overview

<b>Product name</b>	Anti-Protein Kinase D2 antibody [3A1]
<b>Description</b>	Mouse monoclonal [3A1] to Protein Kinase D2
<b>Tested applications</b>	<b>Suitable for:</b> WB, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length Human Protein Kinase D2 produced in HEK293T cells (NP_057541).
<b>Positive control</b>	HEK293T cell lysate transfected with pCMV6-ENTRY Protein Kinase D2 cDNA; HEK293T cells transfected with apCMV6-ENTRY Protein Kinase D2 overexpress plasmid; HeLa cells.
<b>General notes</b>	Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 1% BSA, 50% Glycerol
<b>Purity</b>	Protein A purified
<b>Purification notes</b>	ab118987 was purified from Mouse ascites fluid by affinity chromatography.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	3A1
<b>Isotype</b>	IgG2b

Applications

Our [Abpromise guarantee](#) covers the use of **ab118987** in the following tested applications.

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

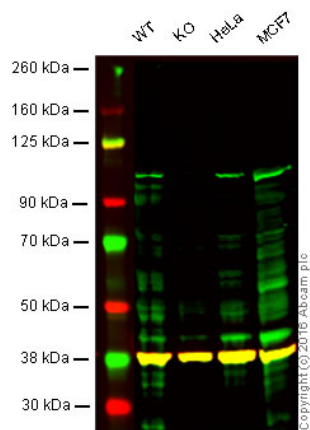
Application	Abreviews	Notes
WB		1/2000. Predicted molecular weight: 97 kDa.

Application	Abreviews	Notes
Flow Cyt		1/100. <a href="#">ab170192</a> -Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

## Target

<b>Function</b>	Converts transient diacylglycerol (DAG) signals into prolonged physiological effects, downstream of PKC. Involved in resistance to oxidative stress.
<b>Tissue specificity</b>	Widely expressed.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. PKD subfamily. Contains 1 PH domain. Contains 2 phorbol-ester/DAG-type zinc fingers. Contains 1 protein kinase domain.
<b>Post-translational modifications</b>	Phosphorylation of Ser-876 correlates with the activation status of the kinase. Ser-706 is probably phosphorylated by PKC.
<b>Cellular localization</b>	Cytoplasm. Membrane. Translocation to the cell membrane is required for kinase activation.

## Images



Western blot - Anti-Protein Kinase D2 antibody [3A1] (ab118987)

**Predicted band size :** 97 kDa

**Lane 1:** Wild-type HAP1 cell lysate (40 µg)

**Lane 2:** Protein Kinase D2 knockout HAP1 cell lysate (40 µg)

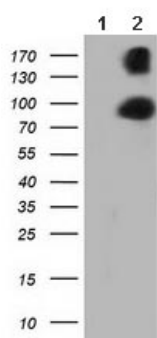
**Lane 3:** HeLa cell lysate (20 µg)

**Lane 4:** MCF7 cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green).

Green - ab118987 observed at 110 kDa. Red - loading control, ab181602, observed at 37 kDa.

ab118987 was shown not to react with Protein Kinase D2 when Protein Kinase D2 knockout samples were used. Wild-type and Protein Kinase D2 knockout samples were subjected to SDS-PAGE. Ab118987 and ab181602 (loading control to GAPDH) were diluted at 1/500 and 1/10,000 dilution respectively and incubated overnight at 4°C. Blots were developed with IRDye® 800CW Goat anti-Mouse IgG (H + L) and IRDye® 680 Goat anti-Rabbit IgG (H + L) secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Protein Kinase D2 antibody [3A1] (ab118987)

**All lanes :** Anti-Protein Kinase D2 antibody [3A1] (ab118987) at 1/2000 dilution

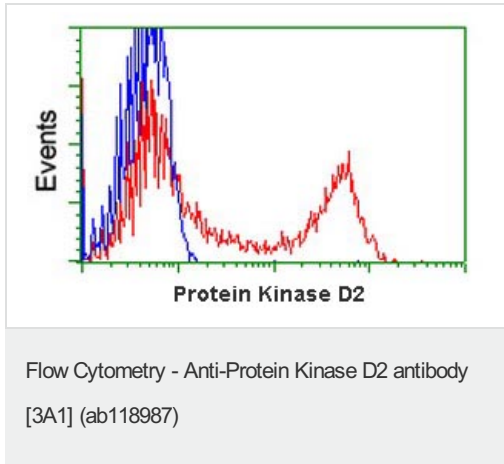
**Lane 1 :** HEK293T cell lysate transfected with pCMV6-ENTRY control cDNA

**Lane 2 :** HEK293T cell lysate transfected with pCMV6-ENTRY Protein Kinase D2 cDNA

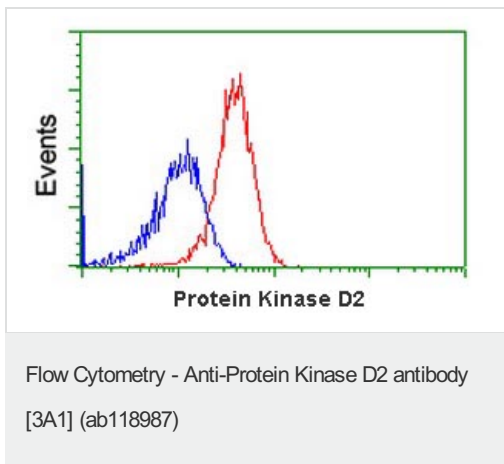
Lysates/proteins at 5 µg per lane.

**Predicted band size :** 97 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC215335)



ab118987 at 1/100 dilution staining Protein Kinase D2 in HEK293T cells transfected with either pCMV6-ENTRY Protein Kinase D2 overexpress plasmid (Red) or empty vector control plasmid (Blue) by flow cytometry.



ab119 at 1/100 dilution staining Protein Kinase D2 in HeLa cells by Flow cytometry (Red) compared to a nonspecific negative control antibody (Blue).

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