

Product datasheet

Anti-Protein Kinase D2 antibody [3A1] ab118987

[4 Images](#)

Overview

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

Properties

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

Applications

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

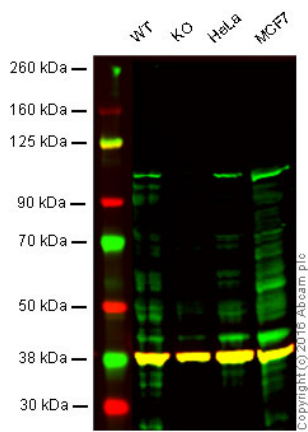
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000. Predicted molecular weight: 97 kDa.
Flow Cyt		1/100. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

Target

Function	Converts transient diacylglycerol (DAG) signals into prolonged physiological effects, downstream of PKC. Involved in resistance to oxidative stress.
Tissue specificity	Widely expressed.
Sequence similarities	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.
Post-translational modifications	Phosphorylation of Ser-876 correlates with the activation status of the kinase. Ser-706 is probably phosphorylated by PKC.
Cellular localization	Cytoplasm. Membrane. Translocation to the cell membrane is required for kinase activation.

Images



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

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

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

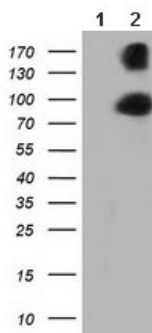
Lane 3: HeLa cell lysate (20 µg)

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 4C. 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

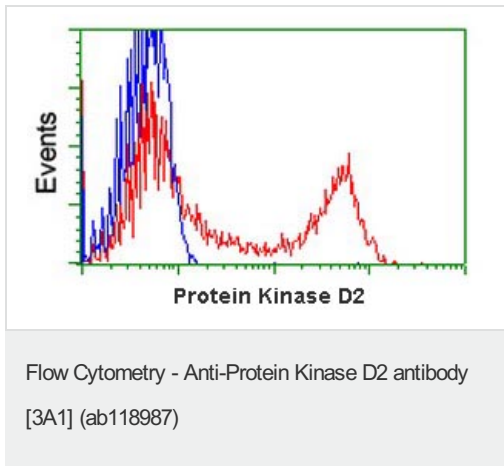
Lane 1 : HEK293T cell lysate transfected with pCMV6-ENTRY control cDNA

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

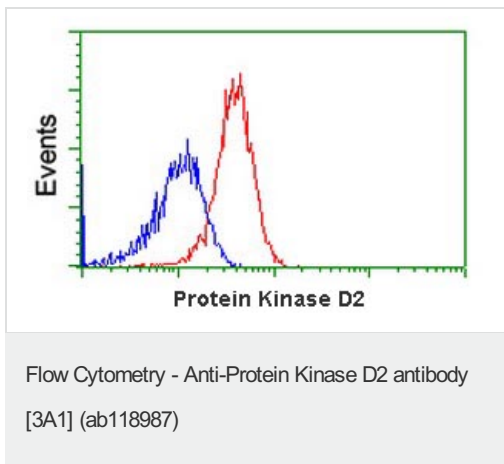
Lysates/proteins at 5 µg per lane.

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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