


Product datasheet

Anti-PHLDA3 antibody [4B6] ab81464

[2 References](#) [1 Image](#)

Overview

Product name	Anti-PHLDA3 antibody [4B6]
Description	Mouse monoclonal [4B6] to PHLDA3
Host species	Mouse
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide: MTAAATATVL KEGVLEKRSGLLLQLWKRKR C, corresponding to N terminal amino acids 1-31 of human PHLDA3 Run BLAST with Expasy Run BLAST with NCBI
Positive control	MDA-MB-468 cells
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6 Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Ion Exchange Chromatography
Purification notes	The antibody was produced from the hybridoma cultured in serum free medium and purified under mild conditions by propriety chromatography processes. The antibody is filter sterilized.
Clonality	Monoclonal
Clone number	4B6
Isotype	IgG2b

Light chain type

kappa

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab81464 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		Use at an assay dependent dilution. Predicted molecular weight: 14 kDa.

Target

Function

p53/TP53-regulated repressor of Akt/AKT1 signaling. Represses AKT1 by preventing AKT1-binding to membrane lipids, thereby inhibiting AKT1 translocation to the cellular membrane and activation. Contributes to p53/TP53-dependent apoptosis by repressing AKT1 activity. Its directs transcription regulation by p53/TP53 may explain how p53/TP53 can negatively regulate AKT1. May acts as a tumor suppressor.

Tissue specificity

Widely expressed with lowest expression in liver and spleen.

Sequence similarities

Belongs to the PHLDA3 family.
Contains 1 PH domain.

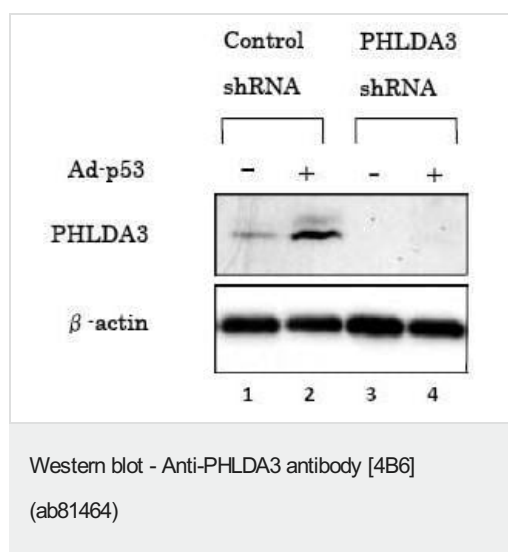
Domain

The PH domain binds phosphoinositides with a broad specificity. It competes with the PH domain of AKT1 and directly interferes with AKT1 binding to phosphatidylinositol 4,5-bisphosphate (PIP2) and phosphatidylinositol 3,4,5-triphosphate (PIP3), preventing AKT1 association to membrane lipids and subsequent activation of AKT1 signaling.

Cellular localization

Cytoplasm. Membrane.

Images



Western blotting was performed using ab81464 to detect PHLDA3 protein expression. PHLDA3 protein was induced by Ad-p53 in MDA-MB-468 cells (left). PHLDA3 expression was inhibited by shRNA targeting PHLDA3 (right).

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