abcam

Product datasheet

Anti-PHLDA3 antibody ab196757

1 References 1 Image

Overview

Product name	Anti-PHLDA3 antibody
Description	Rabbit polyclonal to PHLDA3
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Synthetic peptide corresponding to Human PHLDA3 (internal sequence). Database link: **Q9Y5J5**
Positive control	Human breast carcinoma tissue.
General notes	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. 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

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	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride PBS without Mg^{2+} and Ca^{2+}.
Purity	Immunogen affinity purified
Purification notes	ab196757 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab196757 in the following tested applications.

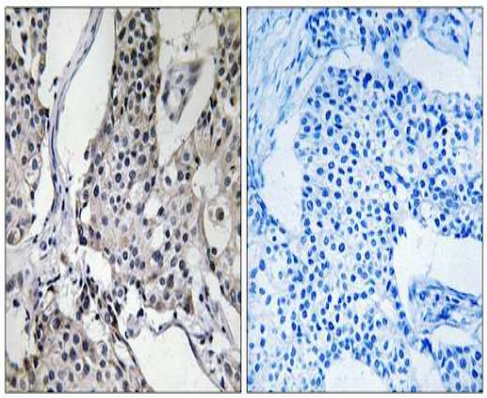
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50 - 1/100.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PHLDA3 antibody (ab196757)

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling PHLDA3 with ab196757 at 1/50 dilution (left) and synthesized peptide (right).

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