

Summary

Production Name	PHLDA3 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	PHLDA3
Alternative Names	PHLDA3; TIH1; Pleckstrin homology-like domain family A member 3; TDAG51/lpl homolog 1
Gene ID	23612.0
SwissProt ID	Q9Y5J5.The antiserum was produced against synthesized peptide derived from human PHLDA3. AA range:21-70

Application

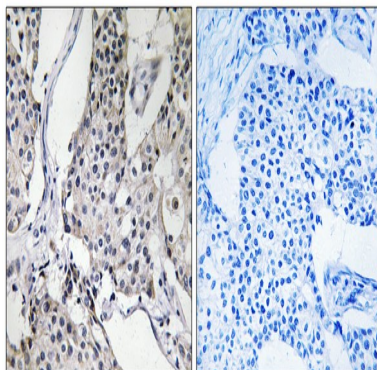
Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000..
Molecular Weight	15kD

Background

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.,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 direct transcription regulation by p53/TP53 may explain how p53/TP53 can negatively regulate AKT1. May act as a tumor suppressor.,induction: By p53/TP53; expression is directly activated by p53/TP53. p53/TP53 phosphorylation on 'Ser-15' is required to activate the PHLDA3 promoter.,miscellaneous: PHLDA3 genomic locus is frequently observed in primary lung cancers, suggesting a role in tumor suppression.,similarity: Belongs to the PHLDA3 family.,similarity: Contains 1 PH domain.,tissue specificity: Widely expressed with lowest expression in liver and spleen.,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.,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 direct transcription regulation by p53/TP53 may explain how p53/TP53 can negatively regulate AKT1. May act as a tumor suppressor.,induction: By p53/TP53; expression is directly activated by p53/TP53. p53/TP53 phosphorylation on 'Ser-15' is required to activate the PHLDA3 promoter.,miscellaneous: PHLDA3 genomic locus is frequently observed in primary lung cancers, suggesting a role in tumor suppression.,similarity: Belongs to the PHLDA3 family.,similarity: Contains 1 PH domain.,tissue specificity: Widely expressed with lowest expression in liver and spleen.,

Research Area

Image Data



Product Name: PHLDA3 Rabbit Polyclonal Antibody
Catalog #: APRab16078



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using PHLDA3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using PHLDA3 Polyclonal Antibody

Note

For research use only.