



PHLDA3 Polyclonal Antibody

Catalog No	YP-Ab-04080
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	PHLDA3
Protein Name	Pleckstrin homology-like domain family A member 3
Immunogen	The antiserum was produced against synthesized peptide derived from human PHLDA3. AA range:21-70
Specificity	PHLDA3 Polyclonal Antibody detects endogenous levels of PHLDA3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PHLDA3; TIH1; Pleckstrin homology-like domain family A member 3; TDAG51/Ipl homolog 1
Observed Band	15kD
Cell Pathway	Cytoplasm . Membrane ; Peripheral membrane protein .
Tissue Specificity	Widely expressed with lowest expression in liver and spleen.
Function	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 directs transcription regulation by p53/TP53 may explain how p53/TP53 can negatively regulate AKT1. May acts 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 prom



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. tissue specificity: Widely expressed with lowest expression in liver and spleen.

matters needing attention

Avoid repeated freezing and thawing!

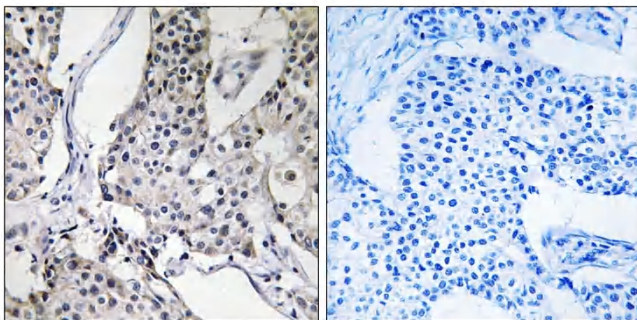
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using PHLDA3 Polyclonal Antibody



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