

PHLDA3 Polyclonal Antibody

Cat No: HR1AP4305

For research use only

Overview

Product Name	PHLDA3 Polyclonal Antibody
Source	Rabbit
Applications	WB,IHC-p,ELISA
Species Reactivity	Human,Mouse,Rat
Recommended Dilutions	
Immunogen	
Species	Rabbit
Storage	-20°C/1 year
Isotype	
Clonality	
Concentration	1 mg/ml
Observed band	15kDa
GeneID?Human?	PHLDA3
Human Swiss-Prot No.	
Cellular localization	
Alternative Names	PHLDA3; TIH1; Pleckstrin homology-like domain family A member 3; TDAG51/lpl homolog 1
Background	<p>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 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.,</p>