



# PHLDA3 Polyclonal Antibody

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

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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 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.,

### matters needing attention

Avoid repeated freezing and thawing!

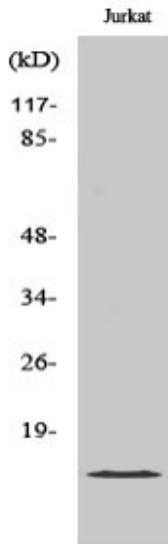
### Usage suggestions

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

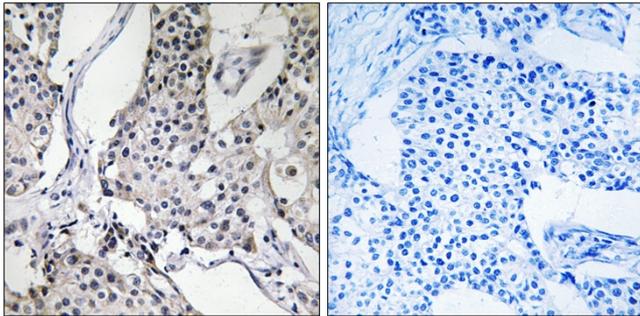
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## Products Images



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.