

PHLDA3 Rabbit pAb

CatalogNo: YT3703

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 15kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

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.

Target Information

Gene name PHLDA3

Protein Name Pleckstrin homology-like domain family A member 3

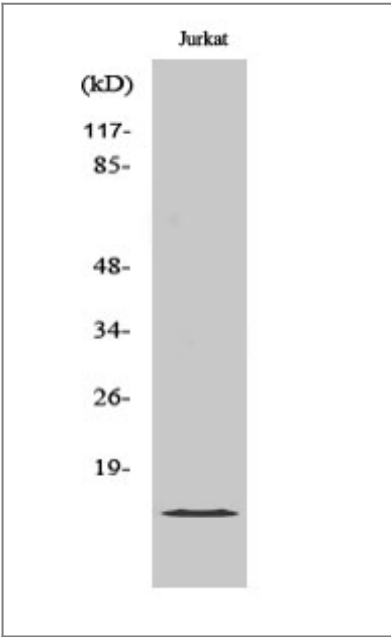
Organism	Gene ID	UniProt ID
Human	23612;	Q9Y5J5;
Mouse	27280;	Q9WV95;
Rat	363989;	Q5PQT7;

Cellular Localization Cytoplasm . Membrane ; Peripheral membrane protein .

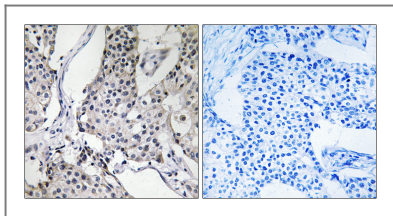
Tissue specificity Widely expressed with lowest expression in liver and spleen.

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 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.,

Validation Data



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.

| Contact information

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Please scan the QR code to access additional product information:

PHLDA3 Rabbit pAb

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