

PHLDA2 Antibody / Pleckstrin homology-like domain family A member 2 Antibody (FY13524)

Catalog No.	Formulation	Size
FY13524	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
UniProt	Q53GA4
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml
Limitations	This PHLDA2 Antibody / Pleckstrin homology-like domain family A member 2 Antibody is supplied exclusively for research use.

PHLDA2 Antibody by IF in HeLa cells. Immunofluorescence staining using Pleckstrin homology-like domain family A member 2 Antibody shows green PHLDA2-associated signal distributed throughout the cytoplasm and around the nuclei of HeLa cells. Red alpha-tubulin staining outlines the microtubule-rich cytoplasmic compartment and provides a contrasting cellular reference. Cells were subjected to enzymatic antigen retrieval, blocked with goat serum, and incubated overnight at 4°C with PHLDA2 primary antibody at 5 ug/mL and an alpha-tubulin antibody. Fluorescent secondary antibodies were used to visualize the two targets. The merged image illustrates their distinct but overlapping cellular distributions.

PHLDA2 Antibody by WB in human cells and rodent kidney. Western blot analysis using Pleckstrin homology-like domain family A member 2 Antibody shows immunoreactivity around 20-25 kDa in human PC-3 (lane 1), A431 (lane 2), and HeLa (lane 3) cell lysates, rat kidney (lane 4), and mouse kidney (lane 5). Although the calculated mass is approximately 17 kDa, the observed 20-25 kDa migration agrees with independent antibody validation data reported by other vendors. Additional higher-molecular-weight signals are present in some human cell lanes. Reduced samples (30 ug per lane) were resolved by 12% SDS-PAGE; primary antibody incubation was performed at 0.5 ug/mL overnight at 4°C.

Description

PHLDA2 Antibody / Pleckstrin homology-like domain family A member 2 Antibody detects PHLDA2, a small protein notable for its genomic imprinting and involvement in placental growth regulation. The gene lies within an imprinted region of chromosome 11p15.5, where parent-of-origin-dependent regulation contributes to developmental control. PHLDA2 is generally expressed from the maternal allele, while the paternal allele is normally silenced in many relevant contexts. This imprinting pattern makes its expression particularly sensitive to changes in epigenetic regulation.

PHLDA2 has been associated with the regulation of placental development and fetal growth, with experimental evidence indicating that altered dosage can affect placental size and function. Its protein sequence includes a pleckstrin homology-like domain, although the presence of this domain does not by itself establish a specific lipid-binding or signaling mechanism. The precise molecular activities of PHLDA2 remain less completely defined than those of many enzymes or receptors. For that reason, its developmental associations should be distinguished from hypotheses about its direct biochemical partners. The Pleckstrin homology-like domain family A member 2 Antibody designation reflects the full protein name associated with the PHLDA2 target.

The imprinted 11p15.5 region contains multiple genes involved in growth regulation, and disturbances of this region have been associated with developmental syndromes. PHLDA2 is one component of this complex regulatory landscape rather than the sole determinant of growth outcomes. Its expression has also been explored in relation to cellular stress and disease-associated changes, but the interpretation of such findings depends on tissue and developmental stage. NSJ Bioreagents offers the PHLDA2 Antibody for this imprinted protein target. A PHLDA2 Antibody is relevant to understanding parent-of-origin gene regulation, placental biology, and the molecular control of developmental growth.

Explore related research targets in our [Developmental Biology Antibodies](#) collection.

Application Notes

Users should optimize the working dilution of the PHLDA2 Antibody / Pleckstrin homology-like domain family A member 2 Antibody for their specific experimental setup.

Immunogen

The PHLDA2 Antibody was generated using a synthetic peptide corresponding to a sequence in the middle region of human PHLDA2.

Storage

Once reconstituted, refrigerate the PHLDA2 Antibody at 4°C for no longer than one month. For extended storage, freeze aliquots at -20°C for up to six months and avoid repeated freeze-thaw cycles.

Alternate Names

PHLDA2 antibody, Pleckstrin homology-like domain family A member 2 antibody, pleckstrin homology like domain family A member 2 antibody, BWR1C antibody, HLDA2 antibody, IPL antibody, TSSC3 antibody, Beckwith-Wiedemann syndrome chromosomal region 1 candidate gene C protein antibody, Imprinted in placenta and liver protein antibody, Tumor-suppressing STF cDNA 3 protein antibody, Tumor-suppressing subchromosomal transferable fragment candidate gene 3 protein antibody, p17-Beckwith-Wiedemann region 1 C antibody

