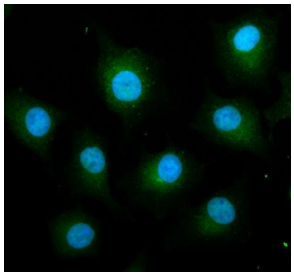
DCBLD2 Antibody / Discoidin, CUB and LCCL domain containing 2 Antibody (FY13622)

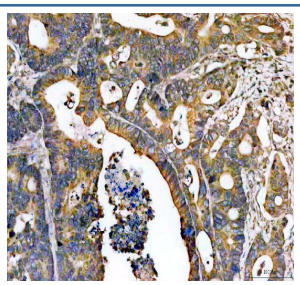
Catalog No.	Formulation	Size
FY13622	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

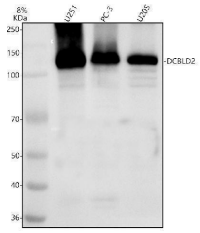
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q96PD2
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Immunoprecipitation: 2ug per 500ug of lysate ELISA: 0.1-0.5 ug/ml
Limitations	Intended solely for research purposes, this DCBLD2 Antibody / Discoidin, CUB and LCCL domain containing 2 Antibody is not for clinical use.



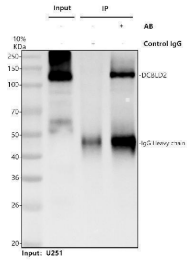
DCBLD2 Antibody by IF in A549 cells. Immunofluorescence analysis using Discoidin, CUB and LCCL domain containing 2 Antibody shows green staining predominantly in the cytoplasmic/peripheral region of A549 cells, with blue DAPI nuclear counterstaining. Cells were incubated with 5 ug/mL primary antibody overnight at 4oC and detected using a fluorophore-conjugated secondary antibody. The figure does not establish plasma membrane colocalization.



DCBLD2 Antibody by IHC in human colon carcinoma. Immunohistochemistry of paraffin-embedded human colon carcinoma using Discoidin, CUB and LCCL domain containing 2 Antibody shows brown DAB-positive staining in glandular tumor tissue with hematoxylin nuclear counterstaining. Heat-mediated antigen retrieval used EDTA buffer, pH 8.0. Sections were incubated with 2 ug/mL primary antibody overnight at 4oC and developed using a peroxidase-based detection system.



DCBLD2 Antibody by WB in human cancer cell lines. Western blot analysis using Discoidin, CUB and LCCL domain containing 2 Antibody detects a prominent band near 120 kDa in human U251 (lane 1), PC-3 (lane 2), and U2OS (lane 3) whole-cell lysates, above the calculated molecular weight of approximately 85 kDa. Independent antibody validation has also reported DCBLD2 migration near 120 kDa, although the mechanism underlying the difference has not been established here. Reduced lysates containing 30 ug protein per lane were resolved by 8% SDS-PAGE, transferred to nitrocellulose, and probed with 0.5 ug/mL primary antibody overnight at 4oC. Signals were visualized by chemiluminescence.



DCBLD2 Antibody by IP in U251 cells. Immunoprecipitation of DCBLD2 from human U251 whole-cell lysate was evaluated by Western blot using Discoidin, CUB and LCCL domain containing 2 Antibody. Lane 1 shows input lysate, lane 2 the rabbit control IgG immunoprecipitate, and lane 3 the specific antibody immunoprecipitate prepared using 2 ug antibody and 500 ug lysate. A band near 120 kDa is enriched in the specific immunoprecipitate. The approximately 50 kDa signal corresponds to immunoglobulin heavy chain.

Description

DCBLD2 Antibody / Discoidin, CUB and LCCL domain containing 2 Antibody recognizes DCBLD2, a transmembrane protein also known as ESDN that participates in signaling associated with cell growth, migration, and tissue remodeling. Its extracellular portion contains discoidin-like, CUB, and LCCL-related domains, structural modules found in proteins that mediate diverse extracellular interactions. DCBLD2 also contains a single membrane-spanning region and a cytoplasmic tail with multiple potential tyrosine phosphorylation sites. This organization provides a molecular framework for linking events outside the cell to intracellular signaling complexes.

Phosphorylation of cytoplasmic tyrosines can create docking sites for proteins with phosphotyrosine-recognition domains. In DCBLD2, these modifications have been studied in the context of receptor-associated signaling and the recruitment of intracellular adaptors. The extracellular domains suggest opportunities for molecular recognition, but the presence of such domains does not establish a single universal ligand. DCBLD2 function is better understood through the particular partners and phosphorylation events documented in a given biological setting.

The DCBLD2 Antibody recognizes a receptor-like membrane protein whose phosphorylated cytoplasmic tail can participate in signaling assemblies. DCBLD2 was investigated early in vascular biology, including endothelial and vascular smooth muscle responses to injury. Vascular remodeling requires coordinated changes in cell proliferation, movement, and extracellular matrix interactions. Expression changes in DCBLD2 have been associated with these responses, supporting interest in its role as a regulator or participant in injury-associated signaling. The direction and magnitude of its effects may depend on the cell type and the growth-factor pathways active at the time.

Studies in cancer have also reported altered DCBLD2 expression and associations with aggressive cellular behavior in some tumor contexts. Such observations have prompted work on its interactions with receptor tyrosine kinase networks and downstream signaling proteins. Nevertheless, expression correlations cannot establish whether DCBLD2 drives a particular disease phenotype or responds to broader changes in the tissue environment. Defining the proteins that associate with its extracellular and intracellular regions remains essential for understanding how its unusual domain architecture contributes to signaling specificity during vascular remodeling and malignant progression.

Explore related research targets in our Signal Transduction Antibodies for Cell Signaling and Regulatory Pathway Research collection.

Application Notes

For best results, determine the optimal working dilution of the DCBLD2 Antibody / Discoidin, CUB and LCCL domain containing 2 Antibody experimentally.

Immunogen

The DCBLD2 Antibody was generated using e. coli-derived human DCBLD2 recombinant protein (amino acids E102-G761).

Storage

Following reconstitution, the DCBLD2 Antibody can be kept at 4oC for one month. Aliquot for extended storage at -20oC for up to six months, avoiding repeated freezing and thawing.

Alternate Names

DCBLD2 antibody, Discoidin, CUB and LCCL domain-containing protein 2 antibody, Discoidin antibody, CUB and LCCL domain-containing protein 2 antibody, CUB and LCCL domain containing 2 antibody, ESDN antibody, Endothelial and smooth muscle cell-derived neuropilin-like protein antibody, CUB antibody, LCCL and coagulation factor V/VIII-homology domains protein 1 antibody, CLCP1 antibody

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