Revision 1

#4804 Store at -20C

DCBLD2 Antibody

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	120	Rabbit	#Q96PD2	131566

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

DCBLD2 Antibody detects endogenous levels of total DCBLD2 protein.

Species predicted to react based on 100% sequence homology:

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human DCBLD2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

DCBLD2 (discoidin, CUB and LCCL domain-containing 2; also known as ESDN and CLCP1) is a type I transmembrane protein that is structurally similar to neuropilin family proteins and contains the longest known amino-terminal secretory signal sequence among eukaryotic proteins (1). Highly expressed in nerve bundles, vascular smooth muscle cells and upregulated following vascular injury, DCBLD2 may be involved in a wide range of functions in the nervous and vascular systems (1,2). Studies have found DCBLD2 to be upregulated in several types of lung cancer with an especially high frequency in metastatic lesions and lymph node metastasis, implicating a role in the process of tumor progression and metastatic capability (3). DCBLD2 has also been identified as part of a complex EGF phosphotyrosine signaling network, serving as a novel tyrosine phosphorylation target of EGF signaling in human cancer cells (4).

Background References

1. Kobuke, K. et al. (2001) *J Biol Chem* 276, 34105-14.
2. Sadeghi, M.M. et al. (2007) *Am J Transplant* 7, 2098-105.
3. Koshikawa, K. et al. (2002) *Oncogene* 21, 2822-8.
4. Chen, Y. et al. (2007) *Proteomics* 7, 2384-97.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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