

Leupaxin (D4I3B) Rabbit mAb

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Applications: W, W-S, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit IgG	UniProt ID: #O60711	Entrez-Gene Id: 9404
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Product Usage Information**Application**

Western Blotting
Simple Western™
Immunoprecipitation

Dilution

1:1000
1:10 - 1:50
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Leupaxin (D4I3B) Rabbit mAb recognizes endogenous levels of total leupaxin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg35 of human leupaxin protein.

Background

Leupaxin is a member of the paxillin family of scaffold proteins whose functions include regulation of cell adhesion, migration and metastasis (1). Leupaxin suppresses integrin-dependent tyrosine phosphorylation of paxillin and affects the regulation of cell-matrix adhesion (2). Researchers have implicated leupaxin in the progression of human hepatocellular carcinoma through its regulation of beta-catenin-mediated transcription (3). Researchers have also shown that leupaxin regulates actin dynamics and migration of prostate cancer cells through its interaction with caldesmon (4) and down-regulation of p120-catenin (5). Studies in breast cancer implicate leupaxin in the regulation of ER-alpha transcription and invasiveness (6).

Background References

1. Deakin, N.O. et al. (2012) *Genes Cancer* 3, 362-70.
2. Tanaka, T. et al. (2010) *Cancer Sci* 101, 363-8.
3. Shi, J. et al. (2015) *Tumour Biol*, .
4. Dierks, S. et al. (2015) *Oncotarget* 6, 13591-606.
5. Kaulfuss, S. et al. (2009) *Oncogene* 28, 3971-82.
6. Kaulfuss, S. et al. (2015) *Int J Oncol* 47, 106-14.

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 nonfat dry milk, 1X TBBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **W-S:** Simple Western™ **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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