

Lamellipodin (D8A2K) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IF-IC	H	Endogenous	195	Rabbit IgG	#Q70E73	65059

Product Usage Information**Application**

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:200

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

Lamellipodin (D8A2K) Rabbit mAb recognizes endogenous levels of total lamellipodin protein. Based on the amino acid sequence of the immunogenic peptide, this antibody is expected to detect the canonical isoform (RMO1-RAPH1) only.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro990 of human lamellipodin protein.

Background

Regulation of actin dynamics at the leading edge of the cell drives cell adhesion, migration, and invasion. These processes are crucial for normal development, immune cell function, angiogenesis and cell division, and are dysregulated in diseases such as metastatic cancer (1, 2). Lamellipodin (Lpd) is a member of the Mig-10/RIAM/lamellipodin (MRL) family of adaptor proteins. Lamellipodin regulates the formation of lamellipodia at the leading edge through its interaction with and recruitment of actin-modulating proteins such as Ena/VASP (3) and the Scar/WAVE complex (4). Lamellipodin and Mena cooperate with endophilin to regulate EGFR endocytosis (5). MRL proteins can also form complexes with talin and activated integrins, guiding the formation of cell protrusions and the direction of cell migration (6).

Background References

1. Rottner, K. and Stradal, T.E. (2011) *Curr Opin Cell Biol* 23, 569-78.
2. Wells, A. et al. (2013) *Trends Pharmacol Sci* 34, 283-9.
3. Hansen, S.D. and Mullins, R.D. (2015) *Elife* 4, .
4. Law, A.L. et al. (2013) *J Cell Biol* 203, 673-89.
5. Vehlou, A. et al. (2013) *EMBO J* 32, 2722-34.
6. Lagarrigue, F. et al. (2015) *Nat Commun* 6, 8492.

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 TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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