

Liprin β 1 (D6O4Z) Rabbit mAb

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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 135	Source/Isotype: Rabbit IgG	UniProt ID: #Q86W92	Entrez-Gene Id: 8496
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Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

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

Specificity/Sensitivity

Liprin β 1 (D6O4Z) Rabbit mAb recognizes endogenous levels of total Liprin β 1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly528 of human Liprin β 1 protein.

Background

Liprins are a family of proteins known to function as LAR (leukocyte common antigen-related) transmembrane protein tyrosine phosphatase-interacting proteins (1). This interaction has been studied in connection to both axon guidance and mammary gland development (1,2). Liprin β 1, a member of this family, is a widely expressed, multivalent cytosolic protein. Liprin β 1 has been found to homodimerize at the N terminus and to heterodimerize with Liprin α 1 and the metastasis-associated protein S100A4 at the C terminus (1,2). The interaction with S100A4 is believed to both inhibit its phosphorylation and to modulate complex formation with Liprin α 1, resulting in a change in LAR cell adhesion properties, thus promoting cell motility and tumor metastasis (2). Liprin β 1 has also been shown to have higher expression levels and to associate with KANK proteins in melanoma and to be a potential regulator of lymphatic vessel integrity (3,4).

Background References

1. Serra-Pagès, C. et al. (1998) *J Biol Chem* 273, 15611-20.
2. Kriajevska, M. et al. (2002) *J Biol Chem* 277, 5229-35.
3. Luo, M. et al. (2016) *Exp Dermatol* 25, 321-3.
4. Norrmén, C. et al. (2010) *Blood* 115, 906-9.

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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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