

# Liprin $\beta$ 1 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	140	Rabbit	#Q86W92	8496

## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

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

## Specificity/Sensitivity

Liprin  $\beta$ 1 Antibody recognizes endogenous levels of total Liprin  $\beta$ 1 protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser510 of human Liprin  $\beta$ 1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

## 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  $\beta$ 1, a member of this family, is a widely expressed, multivalent cytosolic protein. Liprin  $\beta$ 1 has been found to homodimerize at the N terminus and to heterodimerize with Liprin  $\alpha$ 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  $\alpha$ 1, resulting in a change in LAR cell adhesion properties, thus promoting cell motility and tumor metastasis (2). Liprin  $\beta$ 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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