

**#18409** Store at -20°C

# Liprin $\beta$ 1 Antibody


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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> WB	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #Q86W92	<b>Entrez-Gene Id:</b> 8496
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Liprin $\beta$ 1 Antibody recognizes endogenous levels of total Liprin $\beta$ 1 protein.	
<b>Source / Purification</b>	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.	
<b>Background</b>	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).	
<b>Background References</b>	1. Serra-Pagès, C. et al. (1998) <i>J Biol Chem</i> 273, 15611-20. 2. Kriajevska, M. et al. (2002) <i>J Biol Chem</i> 277, 5229-35. 3. Luo, M. et al. (2016) <i>Exp Dermatol</i> 25, 321-3. 4. Norrmén, C. et al. (2010) <i>Blood</i> 115, 906-9.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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